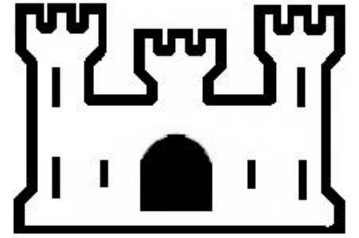


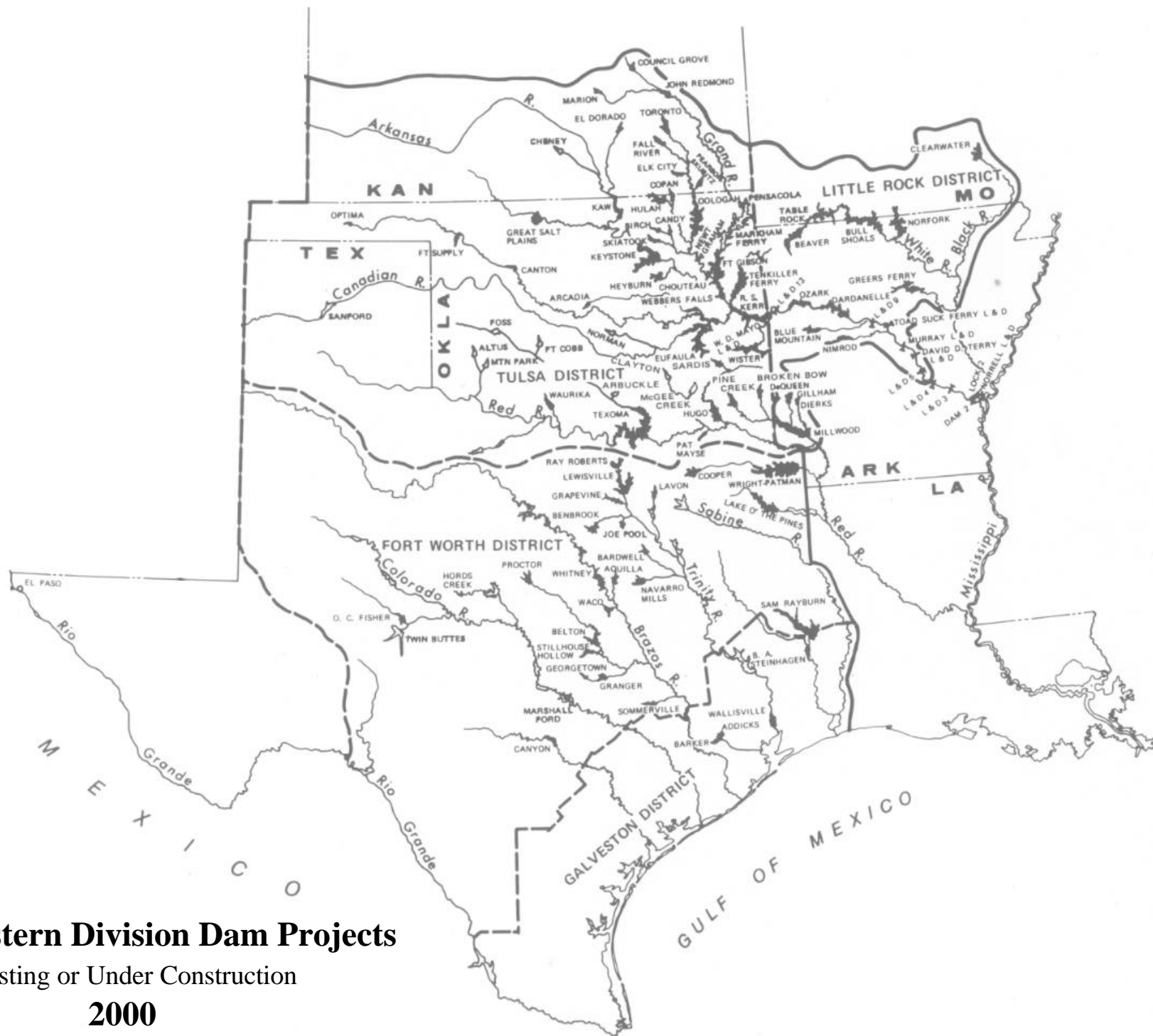
**US Army Corps
Of Engineers
Southwestern Division
Reservoir Control Center**



FY 2000 Annual Water Control Report



**April 2001
FOR OFFICIAL USE ONLY**



FY 2000

ANNUAL WATER CONTROL REPORT

RESERVOIR CONTROL CENTER

SOUTHWESTERN DIVISION

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SECTION I
INTRODUCTION

SECTION I – INTRODUCTION

1. **PURPOSE OF REPORT.** This report presents activities and accomplishments of the Southwestern Division (SWD) as related to reservoir regulation and water management activities throughout FY00. Detailed summaries of reservoir conditions and minutes of the 2000 Annual Reservoir Control Center meeting are also included.

This report is prepared in conformance with ER 1110-2-1400, 24 April 1970, Reservoir Control Centers, paragraph 12c

2. **REFERENCE.** Reservoir Control Center (RCC) - SWD Guidance Memorandum, dated June 1971, approved by the Chief of Engineers as a general basis for the RCC's activities.
3. **OBJECTIVES OF THE RESERVOIR CONTROL CENTER.** The SWD RCC was established in 1967 by the Chief of Engineers to improve capabilities of the Corps of Engineers to perform its civil works mission as related to operation of reservoirs. The SWD RCC carries out its responsibilities by:
 - a. Organizing coordinating committees and/or participating in committees to accomplish mutual understanding among water interests regarding use and regulation of water resources.
 - b. Providing interbasin coordination of day-to-day regulation needs for river systems for all purposes.
 - c. Surveillance of daily operations and continuous analysis of project needs.
 - d. Furnishing technical assistance to personnel of District offices in related efforts to improve the reliability of regulations and hydrologic determinations.
 - e. Provide management and technical guidance for the development and operation of the Division-wide dedicated water control data system. This system includes the equipment and software used for the acquisition, transmission and processing of real-time hydrologic and meteorological data for the purpose of regulating projects for which the Corps of Engineers has responsibility.

SECTION II

WATER CONTROL ACTIVITIES IN SWD

SECTION II - WATER CONTROL ACTIVITIES IN SWD

1. RESERVOIR REGULATION.

- a. **Lake Regulation During FY 00.** Lake regulation activities for Division lakes and Section 7 lakes during FY 00 are summarized in Section VI through IX of this report. Operational data summaries for all of the SWD projects, including Section 7, are shown in tabular form, Section X. An index, by basin, to these tables is included which also lists pertinent data for each project. Also included is a listing in alphabetical order giving names of both the lake and dam where different.
- b. **System Regulation Studies.** None done in 2000.
- c. **Water Control Manuals.** A summary entitled "Status of Water Control Manuals in SWD" is included in Section IV of this report. The summary gives the status and completion schedule through FY 01 for manuals and plans for 105 lakes and 14 river systems and subsystems. Also shown in Section IV is a schedule for completion of high priority Water Control Plans for FY 01 through FY 06. At the end of FY 00, there were 91 Corps of Engineers projects (73 lakes and 18 locks and dams) and 14 Section 7 lakes in operation in SWD. The schedule for FY 01 includes the submission of 7 manuals for review.
- d. **Drought Contingency Plans.** A letter dated 8 June 1988 Subject; "Drought Contingency Plans (DCP)" renewed efforts within the Southwestern Division for the development of DCP's and provided additional guidance to supplement that contained in ER-1110-2-1941. This letter requested that DCP's be developed for all Corps projects with controlled reservoir storage and that the plans should only address temporary project modifications to satisfy short-term needs that can be implemented within existing authorities. During FY 88 several meetings were held in the SWD office with District personnel to develop a framework for DCP's, submittal schedules, review procedures, funding, etc. The DCP's address individual projects, however, they were developed on a river basin or sub-basin concept to include like projects. Each of the documented DCP's is an appendix to the respective river basin Master Water Control Manual. A total of 18 DCP's were required for the river basins within the SWD. A table showing the river basin and projects within each basin is included in Section IV of this report. At the end of FY 92, all 18 plans had been completed and approved.
- e. **Section 7 Project Regulation.** Within SWD there are 14 existing Section 7 reservoirs owned and operated by other agencies. The flood control storage contained in these projects is regulated by the Corps in accordance with Section 7 of the Flood Control Act of 1944. The Districts are continuing their efforts to bring the manuals and regulation plans into compliance with requirements contained in paragraph 208.11, Part 208 Flood Control Regulations,

Chapter 11, Title 33 of the Code of Federal Regulations (41 FR 20401, May 18, 1976). Due to the varied approaches between the Districts on real time regulation for Section 7 projects, SWDO issued a policy letter on 21 March 1983. The purpose of the letter was to supersede previous SWDO guidance and to provide current policies on Section 7 projects. This letter and subsequent letters have been issued to the Districts requiring that policy on Section 7 projects are coordinated with project owners and that finalizing of water control manuals for existing projects should be expedited.

2. DATA COLLECTION AND MANAGEMENT.

- a. **Stream Gaging Program.** The reporting and measurement of flow, water quality and sediment data are required for regulation, investigation and design of water resources projects. Data is obtained through a Cooperative Stream Gaging program between the Corps and the U.S. Geological Survey (USGS). During FY 00 the SWD-USGS cooperative program contained 290 surface water stations, 40 water quality stations, and 20 precipitation stations. The total cost of the SWD-USGS program was \$2.2 million. An additional 160 stations are operated by District personnel.
- b. **Cooperative Reporting Networks.** The National Weather Service (NWS) and the Corps of Engineers began their 61st year of cooperation in establishing and operating networks of river and/or rainfall reporting stations. Reports from these networks supplement those stations maintained by the NWS and are utilized by the Corps of Engineers for flood control operations and flood forecasting. Hydrologic data, and other data necessary to the Corps Water Management functions, are transmitted via satellite and communications networks from the NWS's River Forecast Centers in Tulsa and Fort Worth to the Division and District offices. The data includes information on rainfall, river stages, floods, severe storms, and river forecasts, all developed by the NWS.

The estimated cost to SWD for responsibilities supporting 450 rainfall stations in the NWS Cooperative Reporting Network, was \$279,399.

- c. **Water Control Data System.** The "Water Control Data System Master Plan" for the Southwestern Division was approved by the Office, Chief of Engineers in April 1994, printed and distributed to the Districts in May 1994. The Master Plan is reviewed and revised annually.

(1) Communications.

- (a) Data Collection Platforms (DCP's) transmit remote gaging station data over the

Geostationary Orbiting Environment Satellite (GOES) system, which in turn, downloads that data to Wallops Island. Wallops uploads to DOMSATs (Domestic Satellites) and the data for each particular district is picked up by the district's DROT (Data Receive Only Terminal) and then downloaded to the local Unix systems. The Fort Worth DROT broadcasts data to a designated socket connection to the Division WCDS computer, the Tulsa DROT provides backup for Division. Little Rock District's DROT is also fully functional. Galveston District's new DROT is operational.

- (b) National Weather Service (NWS) Automated Field Office Service (AFOS) data is provided by the Fort Worth and Tulsa National Weather Service River Forecast Center computers to the Fort Worth and Tulsa district WCDS. The Division receives the AFOS information via CEAP network socket connection from the Fort Worth and Tulsa districts' WCDS.
- (c) Communication between the District and Division WCDS is via the CEAP network using TELNET and FTP. Internal communication utilizes Exceed between the Sun Ultra and PC's.

- (2) **Data Acquisition and Analysis.** In September 1993, the SWD RCC began using the WCDS Unix-based computer system for applications that are necessary in the RCC's daily water control activities. The present SWD hardware includes two CDC 4330 workstations, a Sun Sparc Ultra, and a WCDS local area network. The Sun Sparc was installed in FY97. Tulsa District has incorporated their Sun Sparc workstation into their WCDS configuration and provides an additional source of NWS and GOES data.

The Division wide BASIS-PLUS database was maintained during FY00; however, this will terminate when applications are converted for use on the Sun Sparc Ultra or phased out. Plans are to utilize Oracle IAW the CWMS Modernization Program and training of RCC personnel in Oracle continues. SWD also maintains a time-series data storage system (HEC-DSS) collecting Division-wide data. The HEC-DSS at Fort Worth, Galveston, Tulsa, and Little Rock District offices are also available to the Division office.

Data is displayed on 486-Intel based PC's, color plotters, and Laserjet printers. Graphic application programs utilize TEMPLATE software embedded in Fortran programs on the Unix systems, and Microsoft PowerPoint for Windows on PC's. Provisions are made to exchange data with other water management cooperators, i.e. the Office of the Chief of Engineers, Lower Mississippi Valley Division (LMVD), National Weather Service in Tulsa and Topeka, Southwestern Power Administration (SWPA), the Bureau of Reclamation, and a variety of state/local river authorities and agencies. Currently, SWD maintains daily Division Hydropower Generation reports and daily Division Lake Reports. This data, with several District auxiliary programs and data, is available to other users who have a need to be aware of the water control activities.

Tulsa and Fort Worth collect Stage 3 data from the National Weather Service River Forecast Centers and have developed software programs to utilize this information.

3. COORDINATION WITH WATER MANAGEMENT INTERESTS.

a. **General.** The benefits derived from coordination with other personnel associated with water management activities are well recognized. For this reason, special emphasis has been placed maintaining this type of interface through teleconferences, meetings and specialty workshops. These occasions are sponsored by the district, division, HQUSACE and other Corps water management related offices.

- (1) An annual meeting of the Reservoir Control personnel within SWD is convened by the SWD RCC for the purpose of discussing timely topics and exchanging information. This year the annual meeting was hosted by Little Rock District at the Greers Ferry project. The meeting was convened 5-7 December 2000.
- (2) All four districts were visited at least once by selected staff of the SWD RCC (See para. 5.b.(5) of this section). These inspection visits were orchestrated to assess, observe and offer guidance or assistance to insure each district's RCC mission directives were in place and operating at full efficiency. Each visit concluded with an exit briefing given to the Chief of the section and other invited senior district personnel. Each inspection was followed-up by a set of written minutes and recommendations.

b. **Agency coordination.**

(1) **Arkansas River Basin Coordinating Committee.**

- (a) The Arkansas River Basin Coordinating Committee (ARBCC) was established as an advisory committee during development and adoption of a formal plan of regulation for the Arkansas River Basin system of flood control reservoirs. The committee met annually from 1970 through 1982. The product of these efforts was a series of annual refinements to the operating plan culminating with the 1979 plan, which was adopted. The committee was reestablished in 1986 in response to basin water user's concern over the Corps adoption of the "1986 Arkansas River Basin Operational Plan" (commonly referred to as the "fine tuning plan"). Notification of this plan, which is still current, was issued on 17 June 1986. At that time, the water users suggested that the Division Commander develop a formal operating charter for the committee. During development and coordination associated with development of the draft charter, SWD staff (Engineering Division, Resource Management and Office of Counsel) advised the Division Commander that the ARBCC, although an operating body since 1970, was not

in complete conformance with the Federal Advisory Committee Act (FACA) enacted in 1972. The FACA severely limits a Federal agency's authorities as they apply to a group such as the ARBCC. Furthermore, the only way to sanction continued Corps involvement (other than as a technical advisor) would be to seek authorization through legislation or approval by the Department of the Army in accordance with AR 15-1 procedures. However, the FACA does not apply to meetings if they are open to the public and are conducted in an informal environment for the purpose of obtaining the advice of individual attendees and not for the purpose of utilizing the group to obtain consensus advice or recommendations. In view of the above, the non-Corps leadership of the ARBCC was informally notified of these constraints and that the only role that the Corps could legally participate in was that of a technical advisor. ARBCC did convene a meeting in May 1997, however, the Corps' participation (Tulsa District) was limited to attending and acting only as a designated technical advisor.

- (2) **Cooperation with Mississippi Valley Division.** The SWD RCC continues its cooperation with MVD and provides observed, as well as forecasted data, significant to the water management activities in MVD.
- (3) **Cooperation with Southwestern Power Administration.** The SWPA is an agency of the United States, established in the Department of Energy, to execute the purposes of the Flood Control Act of 1944 with respect to the disposition of the electric power and energy made available from the reservoir projects under control of the Department of the Army in the area comprising all of Arkansas and Louisiana and portions of Missouri, Kansas, Texas, and Oklahoma. The scheduling of releases for hydropower production from the 18 Corps of Engineers projects within SWD has a significant effect on the overall water management activities in the Division. Therefore, close cooperation and continuous communication between the Corps and SWPA are mandatory. A Memorandum of Understanding was signed by the SWPA and the Corps of Engineers in 1980. SWPA and SWD have proceeded to develop a draft detail Operating Arrangement to assist in the operations of hydropower projects within SWD. SWD has formally informed the SWPA that the draft document would be its policy for coordinating operations with them until such time that both agencies have signed the arrangement. Specific activities included in the Operating Arrangement for cooperation between SWPA and RCC are monthly scheduling of power production, preparation of data for reports to the Federal Energy Regulatory Commission (FERC), and daily coordination of routine data on current conditions, inflow forecasts, and release schedules. The RCC has taken every opportunity to improve and strengthen relations with SWPA through correspondence, regularly scheduled and special meetings, providing access to our computer systems, and by special studies aimed at improving energy production and scheduling at SWD power projects.
- (4) **Cooperation with the National Weather Service.** Little Rock District is coordinating all efforts with respect to obtaining Next Generation Radar data (NEXRAD)

within SWD. LRD is receiving data from several sites.

SECTION III

FACILITIES AND PERSONNEL

SECTION III - FACILITIES AND PERSONNEL

1. Facilities.

- a. **Office Space.** Water Management personnel are located on the eighth floor of the Earl Cabell Federal Building, 1100 Commerce Street, Dallas, Texas.
- b. **Display Facilities.** The display equipment located in the Engineering Division Conference Room consists of a 486 Intel-based PC operating a 37" NEC Monitor; an overhead projector; video cassette recorder; portable projection equipment; a projection screen; and multiple chalkboards. This equipment supports conferences, briefings and flood emergency/weather briefings.
- c. **Communications Equipment.** The WCDS computer system is a TCP/IP based network of an Ultra Sun Sparc workstation, two UNIX workstations, WINDOWS/NT 486 Intel-based personal computers, a WCDS local area network, a router, a device interface (DI), modems, printers and various support equipment.
 - (1) **WCDS Computers.** These are two Unix-based CDC 4330 systems; one running HEC programs against the data storage system (DSS), and the other one running HEC and locally developed programs against a Basis Plus database system. An Ultra Sun Sparc workstation is running HEC applications.
 - (2) **Local PC's.** Intel-based 486 computers are used to communicate not only with the local Unix systems, but also other Corps of Engineers computer systems via the CEAP wide area net, the WCDS local area network and the Information Management local area network. The PC's utilize XCEED for Windows/NT (with Microsoft Network Software) as a communication's package, acting as a 4107 interface to the graphics on the Unix systems. Local PC programs, i.e., Microsoft Office 98 Arc View, etc, are utilized on each system as well as the programs necessary to interact with IM's Microsoft Outlook Mail System.
 - (3) **Support Hardware.** A variety of printers, plotters, and general communications equipment (a router, a DI, and some modems) are located in the computer room. Emergency Operations provides the satellite-feed equipment for a 25" color television and VCR, used to monitor and record weather and news events on Cable News Network (CNN), The Weather Channel, C-SPAN, and local TV stations. All this equipment is additional support for the WCDS community in the Southwestern Division.

2. **Personnel.**

- a. **Staff.** The Reservoir Control Center is part of the Water Management Team, within the Engineering & Construction Division. The RCC has been assigned a staffing level of 3 positions. The positions consist of two GS-13 Hydraulic Engineers and one GS-12 Computer Specialist. The staffing level for RCC is described in Table 1. The Command Structure diagram shown at the end of this section describes the Chain of Command structure.

Table 1
Southwestern Division
Reservoir Control Center Organization and Staff

| Name | Position |
|-----------------|---|
| Ralph Hight | Acting Chief, Engineering & Construction Division |
| Patrick Evermon | Team Leader, Water Management Team |
| Ronn Brock | Hydraulic Engineer |
| Gary Goodwin | Hydraulic Engineer |
| Annabeth Lee | Computer Specialist |

- b. **Training.** The RCC periodically assesses the developmental needs of its personnel and schedules required training. During FY 00, RCC computer specialist attended local classes in computer training.

Southwestern Division Reservoir Control Center Command Structure



SECTION IV

STATUS OF WATER CONTROL MANUALS

AND

DROUGHT CONTINGENCY PLANS

SECTION IV - STATUS OF WATER CONTROL MANUALS AND DROUGHT CONTINGENCY PLANS

1. **Status Of Water Control Manuals.** Table 2 show the status of the Southwestern Water Control Manuals as of December 2000.

Table 2
Status of Water Control Manuals in SWD
(Report Control Symbol DAEN-CWE-16)
Revised: November 2000

| Reservoir | Stream | Owner | Dist. | Approved | | Sta. ¹ | Scheduled Thru FY 01 | |
|--|-------------------|-------|-------|----------|-----|-------------------|----------------------|---|
| White River Master | | CE | SWL | SEP 93 | SWD | F | | |
| Beaver | White River Basin | CE | SWL | OCT 98 | SWD | F | | |
| Table Rock | White River Basin | CE | SWL | JAN 67 | OCE | F | | [|
| Bull Shoals | White River Basin | CE | SWL | JAN 67 | OCE | F | | [|
| Norfork | White River Basin | CE | SWL | JAN 67 | OCE | F | | [|
| Clearwater | Black River | CE | SWL | JUL 95 | SWD | F | | |
| Greers Ferry | Little Red River | CE | SWL | JUN 66 | OCE | F | | [|
| [- Due to WRDA '99 requirements and HQUSACE DYMS guidance, these manual updates are being suspended until outcome of studies and investigations are finalized and a clear direction has been established. | | | | | | | | |
| Arkansas Master | | CE | TD | OCT 80 | SWD | F | | |
| Cheney (1) | N.F. Ninnescah | BR | TD | MAR 97 | SWD | F | | |
| El Dorado | Walnut River | CE | TD | FEB 83 | SWD | F | SEP 01 | U |
| Kaw | Arkansas River | CE | TD | FEB 95 | SWD | F | | |
| Great Salt Plains | Salt Fork Ark | CE | TD | OCT 99 | SWD | F | | |
| Keystone | Arkansas River | CE | TD | JAN 90 | SWD | F | | |
| Heyburn | Polecat Creek | CE | TD | DEC 84 | SWD | F | | |
| Webbers Falls , L&D 16 | Arkansas River | CE | TD | DEC 97 | SWD | F | | |
| Tenkiller Ferry | Illinois River | CE | TD | MAR 77 | SWD | F | | |
| R.S. Kerr , L&D 15 | Arkansas River | CE | TD | DEC 98 | SWD | F | | |
| W.D. Mayo , L&D 14 | Arkansas River | CE | TD | MAY 99 | SWD | F | | |
| Wister | Poteau River | CE | TD | JUN 74 | SWD | F | | |

NOTES: (1) = Section 7 Project, flood control regulation by CE.

AR = Approved, comments to be answered.

F = Complete, comments answered and approved.

FR = Published in Federal Register.

P = Plan.

R = Revision or answer to comments.

R* = Returned without approval.

U = Update of existing approved manual.

GRDA = Grand River Dam Authority.

WCID = Wichita County Water
Improvement District.

LCRA = Lower Colorado River
Authority.

BR = Bureau of Reclamation

Table 2
Status of Water Control Manuals in SWD
(Report Control Symbol DAEN-CWE-16)
Revised: November 2000

| Reservoir | Stream | Owner | Dist. | Approved | | Sta. ¹ | Scheduled Thru FY 01 | |
|--------------------------|-------------------|-------|-------|----------|-----|-------------------|----------------------|---|
| | | | | | | | | |
| | | | | | | | | |
| Verdigris System | | | | | | | | |
| Toronto | Verdigris River | CE | TD | FEB 90 | SWD | F | | |
| Fall River | Fall River | CE | TD | APR 93 | SWD | F | | |
| Elk City | Elk River | CE | TD | SEP 95 | SWD | F | | |
| Pearson-Skubitz-Big Hill | Big Hill Creek | CE | TD | APR 83 | SWD | F | | |
| Oologah | Verdigris River | CE | TD | MAY 97 | SWD | F | | |
| Copan | Caney River | CE | TD | MAR 83 | SWD | F | | |
| Hulah | Caney River | CE | TD | MAR 99 | SWD | F | | |
| Birch | Bird Creek | CE | TD | SEP 81 | SWD | F | | |
| Skiatook | Hominy Creek | CE | TD | APR 88 | SWD | F | | |
| Newt Graham , L&D 18 | Verdigris River | CE | TD | AUG 72 | SWD | F | | |
| Chouteau , L&D 17 | Verdigris River | CE | TD | AUG 72 | SWD | F | | |
| | | | | | | | | |
| Grand System | | | | | | | | |
| Council Grove | Neosho River | CE | TD | MAR 95 | SWD | F | | |
| Marion | Cottonwood River | CE | TD | APR 96 | SWD | F | | |
| John Redmond | Neosho River | CE | TD | APR 96 | SWD | F | | |
| Pensacola (1) | Neosho River | GRDA | TD | NOV 92 | SWD | F | | |
| Markham Ferry (1) | Neosho River | GRDA | TD | NOV 92 | SWD | F | | |
| Fort Gibson | Neosho River | CE | TD | NOV 92 | SWD | F | | |
| | | | | | | | | |
| Canadian System | | | | | | | | |
| Sanford (1) | Canadian River | BR | TD | FEB 66 | OCE | AR | | |
| Norman (1) | Little River | BR | TD | OCT 93 | SWD | F | | |
| Optima | N. Canadian River | CE | TD | JAN 72 | SWD | F | | |
| Fort Supply | Wolf Creek | CE | TD | JAN 72 | SWD | F | SEP 01 | U |
| Canton | N. Canadian River | CE | TD | DEC 93 | SWD | F | | |
| Arcadia | Deep Fork River | CE | TD | JUN 86 | SWD | F | | |
| Eufaula | Canadian River | CE | TD | JAN 94 | SWD | F | | |
| | | | | | | | | |

Table 2
Status of Water Control Manuals in SWD
(Report Control Symbol DAEN-CWE-16)
Revised: November 2000

| Reservoir | Stream | Owner | Dist. | Approved | | Sta. ¹ | Scheduled Thru FY 01 | |
|-------------------------------|-------------------|--------------|--------------|-----------------|-----|--------------------------|-----------------------------|---|
| Arkansas Master | | CE | SWL | SEP 80 | SWD | F | | |
| Lock & Dam 13 | Arkansas River | CE | SWL | SEP 91 | SWD | F | | |
| Ozark-Jetta Taylor | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Dardanelle | Arkansas River | CE | SWL | APR 76 | SWD | F | | |
| Blue Mountain | Petit Jean | CE | SWL | MAR 68 | OCE | F | SEP 01 | U |
| Lock & Dam 9 | Arkansas River | CE | SWL | SEP 98 | SWD | F | | |
| Lock & Dam 8 Toad Suck Ferry | Arkansas River | CE | SWL | AUG 74 | SWD | F | | |
| Nimrod | Fourche La Fave | CE | SWL | MAR 68 | OCE | F | SEP 01 | U |
| Lock & Dam 7 Murray | Arkansas River | CE | SWL | MAY 97 | SWD | F | | |
| Lock & Dam 6 David D. Terry | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Lock & Dam 5 | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Lock & Dam 4 | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Lock & Dam 3 | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Lock & Dam 2 | Arkansas River | CE | SWL | DEC 98 | SWD | F | | |
| Lock & Dam 1 (Ark Post Canal) | Arkansas River | CE | SWL | SEP 74 | SWD | F | | |
| Montgomery Point L&D | White River | CE | SWL | N/A | N/A | N/A | | |
| | | | | | | | | |
| Red River Master | | CE | TD | FEB 63 | OCE | AR | | |
| Altus (1) | N. Fork River | BR | TD | MAR 93 | SWD | F | | |
| Mountain Park (1) | Otter Creek | BR | TD | OCT 93 | SWD | F | | |
| Truscott Brine Lake | Bluff Creek | CE | TD | DEC 95 | SWD | F | | |
| Lake Kemp (1) | Wichita River | WCID | TD | MAY 94 | SWD | F | | |
| Waurika | Beaver Creek | CE | TD | APR 77 | SWD | F | | |
| Foss (1) | Washita River | BR | TD | SEP 93 | SWD | F | | |
| Fort Cobb (1) | Cobb Creek | BR | TD | JUL 98 | SWD | F | | |
| Arbuckle (1) | Rock Creek | BR | TD | NOV 66 | OCE | AR | SEP 01 | U |
| Texoma | Red River | CE | TD | JUL 93 | SWD | AR | | |
| Pat Mayse | Sanders Creek | CE | TD | OCT 67 | OCE | F | | |
| Sardis | Jackfork Creek | CE | TD | AUG 84 | SWD | F | | |
| McGee Creek (1) | Muddy Boggy Creek | BR | TD | OCT 89 | SWD | F | | |
| Hugo | Kiamichi River | CE | TD | MAY 82 | SWD | AR | | |
| | | | | | | | | |

Table 2
Status of Water Control Manuals in SWD
(Report Control Symbol DAEN-CWE-16)
Revised: November 2000

| Reservoir | Stream | Owner | Dist. | Approved | | Sta. ¹ | Scheduled Thru FY 01 | |
|----------------------|-----------------|-------|-------|----------|------|-------------------|----------------------|--|
| Little River System | | | | | | | | |
| Pine Creek | Little River | CE | TD | OCT 98 | SWD | F | | |
| Broken Bow | Mountain Fork | CE | TD | NOV 74 | SWD | F | | |
| Dequeen | Rolling Fork | CE | SWL | JUN 76 | SWD | R | | |
| Gillham | Cossatot River | CE | SWL | JUL 86 | SWD | F | | |
| Dierks | Saline River | CE | SWL | APR 76 | SWD | F | | |
| Millwood | Little River | CE | SWL | NOV 73 | SWD | F | | |
| | | | | | | | | |
| Sulphur River Master | | | | | | | | |
| Cooper | Sulphur River | CE | FWD | | | | | |
| Wright Patman | Sulphur River | CE | FWD | SEP 80 | SWD | R | | |
| Lake O' The Pines | Cypress Creek | CE | FWD | NOV 74 | LMVD | F | | |
| | | | | | | | | |
| Neches River Master | | CE | FWD | MAR 63 | OCE | AR | | |
| B. A. Steinhagen | Neches River | CE | FWD | FEB 63 | OCE | AR | | |
| Sam Rayburn | Angelina River | CE | FWD | FEB 73 | SWD | AR | | |
| | | | | | | | | |
| Trinity River Master | | CE | FWD | MAY 75 | SWD | P | | |
| Benbrook | Clear Fork | CE | FWD | MAY 75 | SWD | P | SEP 01 | |
| Joe Pool | Mountain Creek | CE | FWD | DEC 86 | SWD | P/AR | | |
| Ray Roberts | Elm Fork | CE | FWD | DEC 97 | SWD | F | | |
| Lewisville | Elm Fork | CE | FWD | MAY 97 | SWD | F | | |
| Grapevine | Denton Creek | CE | FWD | AUG 96 | SWD | F | | |
| Lavon | East Fork | CE | FWD | MAY 75 | SWD | P | SEP 01 | |
| Navarro Mills | Richland Creek | CE | FWD | JUL 64 | OCE | AR | | |
| Bardwell | Waxahacie Creek | CE | FWD | MAR 89 | SWD | F | | |
| Wallisville | Trinity River | CE | GD | | | | | |
| | | | | | | | | |
| Buffalo Bayou Master | | CE | GD | | | | | |
| Barker | Buffalo Bayou | CE | GD | OCT 78 | SWD | F | | |
| Addicks | Buffalo Bayou | CE | GD | OCT 78 | SWD | F | | |
| | | | | | | | | |

Table 2
Status of Water Control Manuals in SWD
(Report Control Symbol DAEN-CWE-16)
Revised: November 2000

| Reservoir | Stream | Owner | Dist. | Approved | | Sta. ¹ | Scheduled Thru FY 01 | |
|-------------------------------|------------------|-------|-------|----------|-----|-------------------|----------------------|--|
| Brazos River Master | | CE | FWD | MAR 73 | SWD | R* | | |
| Whitney | Brazos River | CE | FWD | MAY 75 | SWD | F | | |
| Aquilla | Aquilla Creek | CE | FWD | JUL 88 | SWD | F | | |
| Waco | Bosque River | CE | FWD | JUN 75 | SWD | F | | |
| Proctor | Leon River | CE | FWD | APR 74 | SWD | F | | |
| Belton | Leon River | CE | FWD | MAY 76 | SWD | F | | |
| Stillhouse Hollow | Lampasas River | CE | FWD | FEB 79 | SWD | F | | |
| Georgetown | N.F. San Gabriel | CE | FWD | JUN 90 | SWD | F | | |
| Granger | San Gabriel | CE | FWD | MAR 91 | SWD | F | | |
| Somerville | Yegua Creek | CE | FWD | NOV 73 | SWD | F | | |
| | | | | | | | | |
| Colorado River Master | | CE | FWD | | | | | |
| Hords Creek | Hords Creek | CE | FWD | MAY 62 | OCE | AR | | |
| O.C. Fisher | N. Concho | CE | FWD | DEC 62 | OCE | AR | | |
| Twin Buttes (1) | S. Concho | BR | FWD | SEP 66 | OCE | P/FR | | |
| Marshall Ford (1) | Colorado River | BR | FWD | AUG 99 | SWD | P/FR | | |
| | | | | | | | | |
| Guadalupe River Master | | CE | FWD | JAN 66 | OCE | AR | | |
| Canyon | Guadalupe River | CE | FWD | OCT 78 | SWD | F | | |

2. **Schedule of High Priority Water Control Plans.** Table 3 shows the schedule of the Southwestern Division High Priority Water Control Plans from FY01 through FY06.

Table 3
Southwestern Division
Schedule of High Priority Water Control Plans
FY 01 Thru FY 06

| FY | Fort Worth | Galveston | Little Rock | Tulsa |
|----|------------|-----------|---------------|-----------|
| 01 | Benbrook | | Blue Mountain | El Dorado |
| | Lavon | | Nimrod | Arbuckle |

Table 3
Southwestern Division
Schedule of High Priority Water Control Plans
FY 01 Thru FY 06

| FY | Fort Worth | Galveston | Little Rock | Tulsa |
|-----------|-------------------|------------------|-----------------------|-----------------------|
| | | | | Fort Supply |
| | | | | |
| 02 | Cooper | | Ozark | Wister |
| | | | Toad Suck Ferry L&D 8 | Sanford |
| | | | | Chouteau L&D |
| | | | | Newt Graham L&D |
| | | | | Fort Gibson |
| | | | | |
| 03 | Navarro Mills | | Dardanelle | Waurika |
| | Bardwell | | D.D. Terry L&D 6 | Heyburn |
| | | | | Birch |
| | | | | Tenkiller |
| | | | | Pat Mayse |
| | | | | |
| 04 | Twin Buttes | Addicks | Table Rock | Hudson |
| | | Barker | Bull Shoals | Hugo |
| | | | Norfork | Big Hill |
| | | | Greers Ferry | Red River Master |
| | | | | |
| 05 | Sam Rayburn | | L&D 5 | Pensacola |
| | Town Bluff | | Sanders L&D 4 | Keystone |
| | | | Hardin L&D 3 | Copan |
| | | | | Optima |
| | | | | |
| 06 | | | Millwood | Skiatook |
| | | | Dierks | Sardis |
| | | | DeQueen | Arcadia |
| | | | Gillham | Toronto |
| | | | Norrell L&D 1 | Arkansas River Master |
| | | | Montgomery Pt L&D | |

3. **Schedule Of Drought Contingency Plans.** Table 4 shows the schedule of the Southwestern Division drought contingency plans.

Table 4

Schedule Of Drought Contingency Plans In SWD

| Basin/Project | Stream | Dist. | Completion | Status |
|------------------------------------|------------------|--------------|-------------------|----------------------|
| White River Basin | | LRD | August 1990 | Approved Plan/SEP 89 |
| Beaver | White River | LRD | | |
| Table Rock | White River | LRD | | |
| Bull Shoals | White River | LRD | | |
| Norfork | White River | LRD | | |
| Clearwater | Black River | LRD | | |
| Greers Ferry | Little Red River | LRD | | |
| | | | | |
| Mid-Arkansas River Basin | | TD | December 1990 | Approved Plan/JUN 91 |
| El Dorado | Walnut River | TD | | |
| Kaw | Arkansas River | TD | | |
| Great Salt Plains | Salt Fork ARK | TD | | |
| Keystone | Arkansas River | TD | | |
| Heyburn | Polecat Creek | TD | | |
| | | | | |
| Upper Verdigris River Basin | | TD | July 1990 | Approved Plan/AUG 90 |
| Toronto | Verdigris River | TD | | |
| Fall River | Fall River | TD | | |
| Elk City | Elk River | TD | | |
| Pearson-Skubitz-Big Hill | Big Hill Creek | TD | | |
| | | | | |
| Lower Verdigris River Basin | | TD | March 1990 | Approved Plan/AUG 90 |
| Copan | Caney River | TD | | |
| Hulah | Caney River | TD | | |
| Birch | Bird Creek | TD | | |
| Skiatook | Hominy Creek | TD | | |
| Oologah | Verdigris River | TD | | |
| | | | | |
| Upper Neosho River Basin | | TD | August 1989 | Approved Plan/OCT 90 |
| Council Grove | Neosho River | TD | | |
| Marion | Cottonwood River | TD | | |
| John Redmond | Neosho River | TD | | |
| | | | | |
| Lower Ark River Basin | | | August 1989 | Approved Plan/AUG 90 |
| Fort Gibson | Neosho River | TD | | |

Table 4**Schedule Of Drought Contingency Plans In SWD**

| Basin/Project | Stream | Dist. | Completion | Status |
|-----------------------------------|-------------------|--------------|-------------------|----------------------|
| Tenkiller Ferry | Illinois River | TD | | |
| Wister | Poteau River | TD | | |
| | | | | |
| Lower Canadian River Basin | | TD | July 1990 | Approved Plan/MAY 91 |
| Optima | N. Canadian River | TD | | |
| Fort Supply | Wolf Creek | TD | | |
| Canton | N. Canadian River | TD | | |
| Arcadia | Deep Fork River | TD | | |
| Eufaula | Canadian River | TD | | |
| | | | | |
| Navigation Projects | | TD | December 1990 | Approved Plan/SEP 92 |
| Newt Graham, L&D 18 | Arkansas River | TD | | |
| Chouteau, L&D 17 | Arkansas River | TD | | |
| Webbers Falls, L&D 16 | Arkansas River | TD | | |
| R.S. Kerr, L&D 15 | Arkansas River | TD | | |
| W.D. Mayo, L&D 14 | Arkansas River | TD | | |
| | | | | |
| Lower Arkansas River Basin | | LRD | MARCH 1990 | Approved Plan/SEP 92 |
| Blue Mountain | Petit Jean | LRD | | |
| Nimrod | Foruche La Fave | LRD | | |
| Ozark-Jetta Taylor | Arkansas River | LRD | | |
| Dardanelle | Arkansas River | LRD | | |
| Navigation L&D'S(10) | Arkansas River | LRD | | |
| | | | | |
| Upper Red River Basin | | TD | March 1990 | Approved Plan/AUG 89 |
| Texoma | Red River | TD | | |
| Waurika | Beaver Creek | TD | | |
| | | | | |
| Mid-Red River Basin | | TD | July 1990 | Approved Plan/JAN 90 |
| Pat Mayse | Sanders Creek | TD | | |
| Sardis | Jackfork Creek | TD | | |
| Hugo | Kiamichi River | TD | | |
| Pine Creek | Little River | TD | | |
| Broken Bow | Mountain Fork | TD | | |
| | | | | |
| Little River Basin | | TD | November 1990 | Approved Plan/OCT 91 |
| DeQueen | Rolling Fork | LRD | | |
| Gillham | Cossatot River | LRD | | |
| Dierks | Saline River | LRD | | |

Table 4**Schedule Of Drought Contingency Plans In SWD**

| Basin/Project | Stream | Dist. | Completion | Status |
|------------------------------|------------------|--------------|-------------------|----------------------|
| Millwood | Little River | LRD | | |
| | | | | |
| Lower Red River Basin | | FWD | August 1990 | Approved Plan/OCT 91 |
| Cooper | Sulphur River | FWD | | |
| Wright Patman | Sulphur River | FWD | | |
| Lake O' The Pines | Cypress Creek | FWD | | |
| Neches River Basin | | FWD | February 1991 | Approved Plan/AUG 91 |
| B. A. Steinhagen | Neches River | FWD | | |
| Sam Rayburn | Angelina River | FWD | | |
| | | | | |
| Trinity River Basin | | FWD | August 1989 | Approved Plan/AUG 91 |
| Benbrook | Clear Fork | FWD | | |
| Joe Pool | Mountain Creek | FWD | | |
| Ray Roberts | Elm Fork | FWD | | |
| Lewisville | Elm Fork | FWD | | |
| Grapevine | Denton Creek | FWD | | |
| Lavon | East Fork | FWD | | |
| Navarro Mills | Richland Creek | FWD | | |
| Bardwell | Waxahacie Creek | FWD | | |
| | | | | |
| Brazos River Basin | | FWD | May 1990 | Approved Plan/AUG 91 |
| Whitney | Brazos River | FWD | | |
| Aquilla | Aquilla River | FWD | | |
| Proctor | Leon River | FWD | | |
| Belton | Leon River | FWD | | |
| Stillhouse Hollow | Lampasas River | FWD | | |
| Georgetown | N.F. San Gabriel | FWD | | |
| Granger | San Gabriel | FWD | | |
| Waco | Bosque River | FWD | | |
| Somerville | Yequa Creek | FWD | | |
| | | | | |
| Colorado River Basin | | FWD | November 1990 | Approved Plan/AUG 91 |
| Hords Creek | Hords Creek | FWD | | |
| O.C. Fisher | North Concho | FWD | | |
| | | | | |
| Guadalupe River Basin | | FWD | May 1991 | Approved Plan/AUG 91 |
| Canyon | Guadalupe River | FWD | | |
| | | | | |

SECTION V

REGULATION OF MULTI-PURPOSE PROJECTS

WITH HYDROPOWER

SECTION V - HYDROPOWER GENERATION- SOUTHWESTERN DIVISION PROJECTS

1. **Federal Hydropower at SWD Projects.** The 18 Federal Hydropower Projects are listed in Table 5.

TABLE 5

Southwestern Division Federal Hydropower Projects

| Projects | Basin | Stream | No. Units | Total Capacity MW | Page No. |
|----------------------|----------|---------------|-----------|-------------------|----------|
| Beaver Lake | White | White | 2 | 112 | V- 3 |
| Table Rock Lake | White | White | 4 | 200 | V- 3 |
| Bull Shoals Lake | White | White | 8 | 340 | V- 4 |
| Norfork Lake | White | North Fork | 2 | 70 | V- 4 |
| Greers Ferry | White | Little Red | 2 | 96 | V- 5 |
| Keystone Lake | Arkansas | Arkansas | 2 | 70 | V- 5 |
| Ft. Gibson Lake | Arkansas | Grand | 4 | 45 | V- 6 |
| Webbers Falls | Arkansas | Arkansas | 3 | 60 | V-6 |
| Tenkiller Ferry Lake | Arkansas | Illinois | 2 | 34 | V- 7 |
| Eufaula Lake | Arkansas | S. Canadian | 3 | 90 | V- 7 |
| Robert S. Kerr | Arkansas | Arkansas | 4 | 110 | V- 8 |
| Ozark-Jetta Taylor | Arkansas | Arkansas | 5 | 100 | V- 8 |
| Dardanelle | Arkansas | Arkansas | 4 | 124 | V- 9 |
| Denison Dam | Red | Red | 2 | 70 | V- 9 |
| Broken Bow Lake | Red | Mountain Fork | 2 | 100 | V- 10 |
| Lake Sam Rayburn | Neches | Angelina | 2 | 52 | V- 10 |
| Town Bluff | Neches | Neches | 2 | 7 | V- 11 |
| Whitney Lake | Brazos | Brazos | 2 | 30 | V- 11 |

2. **Electricity Generated By Project.** Electricity generated by project for the last five fiscal years (rounded to the nearest GWH) are shown in Table 6.

TABLE 6
Southwestern Division
Electricity Generated By Project
in (GWH) for
Fiscal Years 1996 to 2000

| Projects | 1996 | 1997 | 1998 | 1999 | 2000 |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| Beaver Lake | 98.6 | 170.0 | 158.9 | 147.4 | 90.3 |
| Table Rock Lake | 254.2 | 467.9 | 580.6 | 506.8 | 232.3 |
| Bull Shoals Lake | 368.5 | 681.3 | 846.9 | 687.8 | 301.5 |
| Norfork Lake | 131.4 | 192.9 | 182.8 | 149.4 | 66.5 |
| Greers Ferry Lake | 68.9 | 218.7 | 156.3 | 112.1 | 80.5 |
| Keystone Lake | 153.0 | 437.0 | 248.3 | 495.3 | 324.0 |
| Ft. Gibson Lake | 92.0 | 269.0 | 251.1 | 334.7 | 171.9 |
| Webbers Falls | 109.0 | 276.0 | 232.5 | 282.8 | 228.3 |
| Tenkiller Ferry Lake | 81.0 | 162.0 | 137.0 | 159.6 | 96.0 |
| Eufaula Lake | 197.0 | 376.0 | 346.2 | 416.8 | 216.9 |
| Robert S. Kerr | 317.0 | 786.0 | 635.9 | 857.1 | 570.1 |
| Ozark-Jetta Taylor | 245.1 | 319.8 | 330.5 | 214.1 | 277.2 |
| Dardanelle | 396.6 | 499.8 | 499.7 | 364.7 | 480.3 |
| Denison Dam | 216.0 | 427.0 | 247.9 | 181.0 | 118.0 |
| Broken Bow Lake | 42.0 | 230.0 | 160.8 | 204.7 | 92.6 |
| Lake Sam Rayburn | 58.2 | 116.8 | 160.0 | 170.5 | 55.4 |
| Town Bluff | 34.5 | 32.6 | 39.1 | 35.4 | 36.3 |
| Whitney Lake | 26.2 | 122.0 | 48.8 | 13.0 | 8.3 |

3. **Hydropower Generation From Impoundment.** Generation by the projects, since impoundment, is depicted by figures 2 through 10 on pages V-3 to V-11.

Beaver Lake

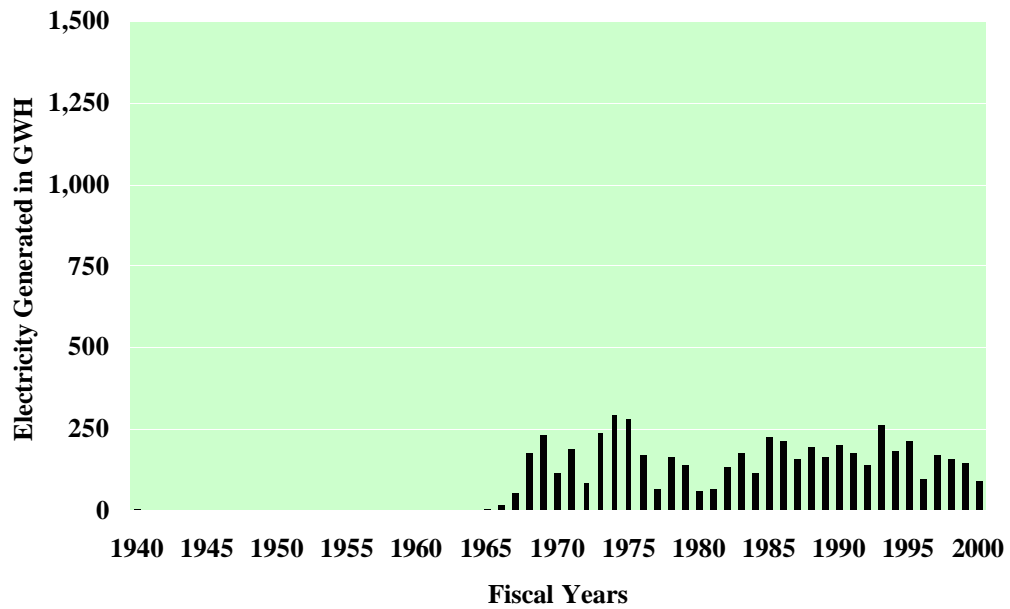
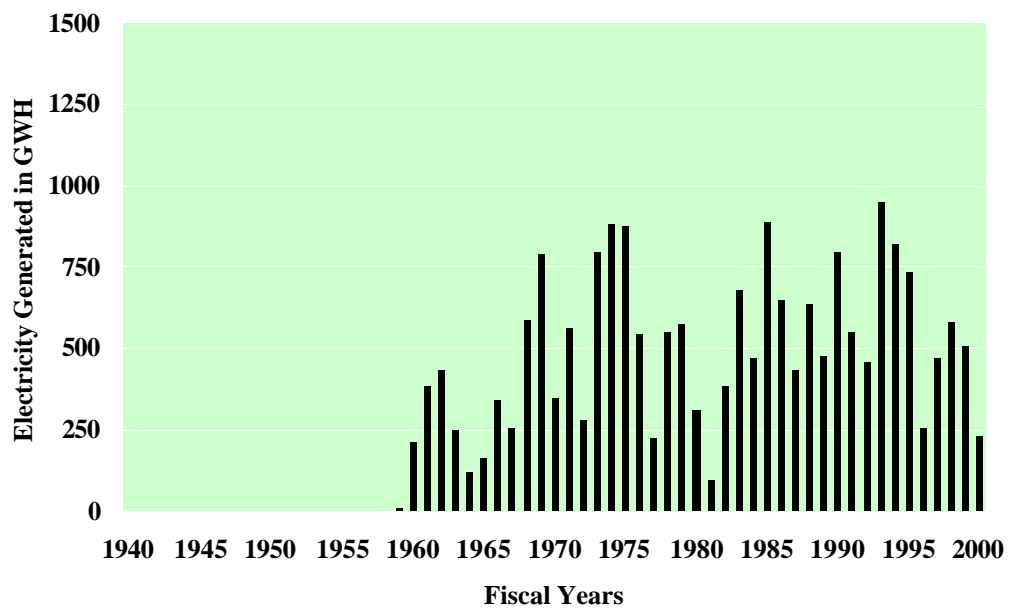
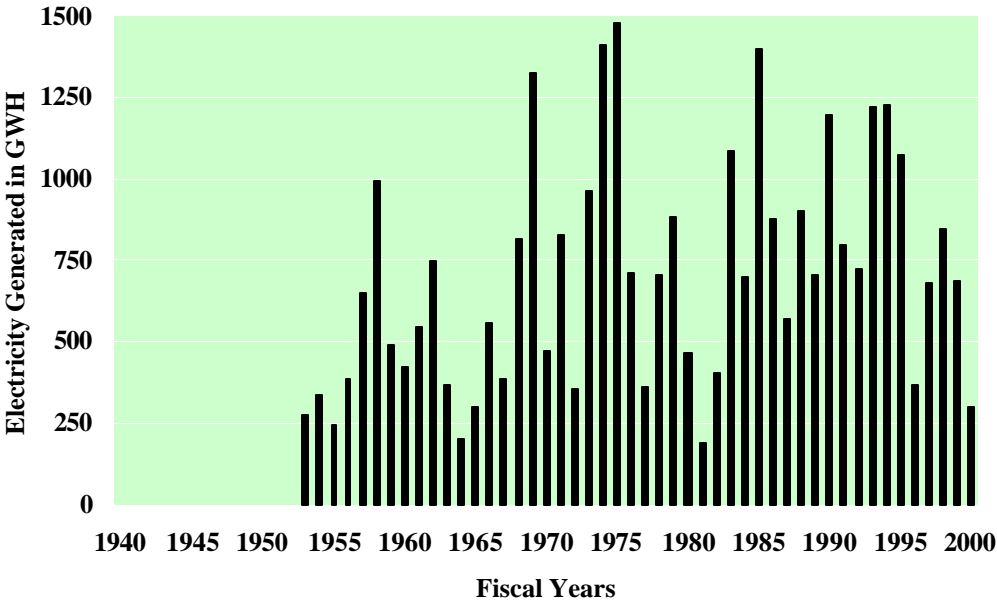


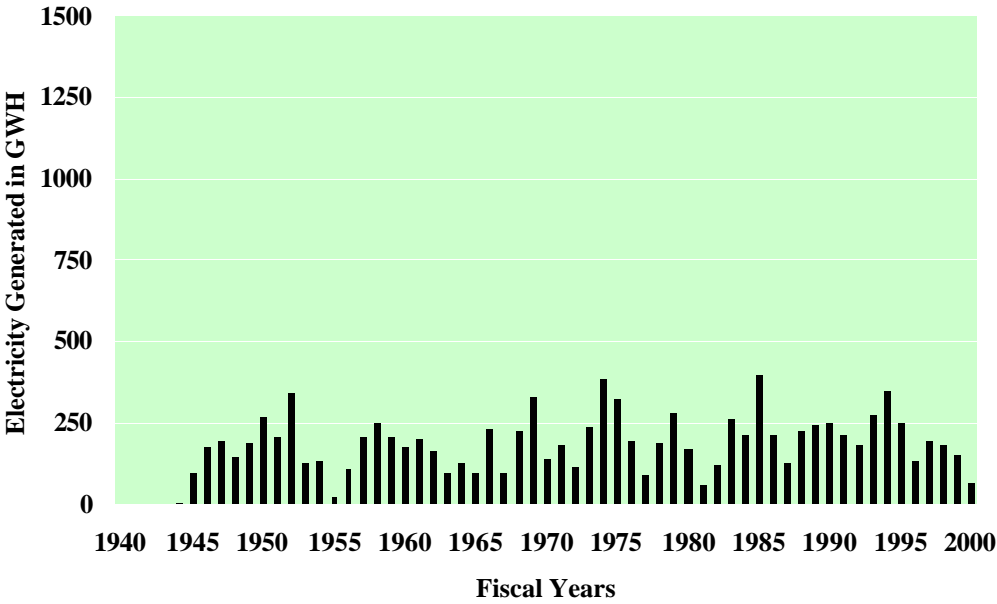
Table Rock Lake



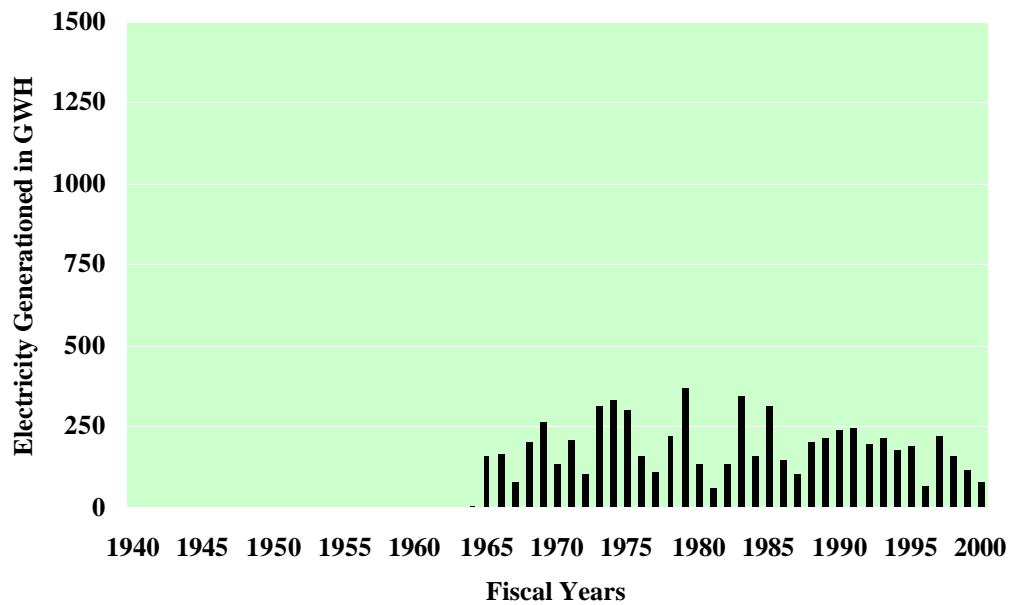
Bull Shoals Lake



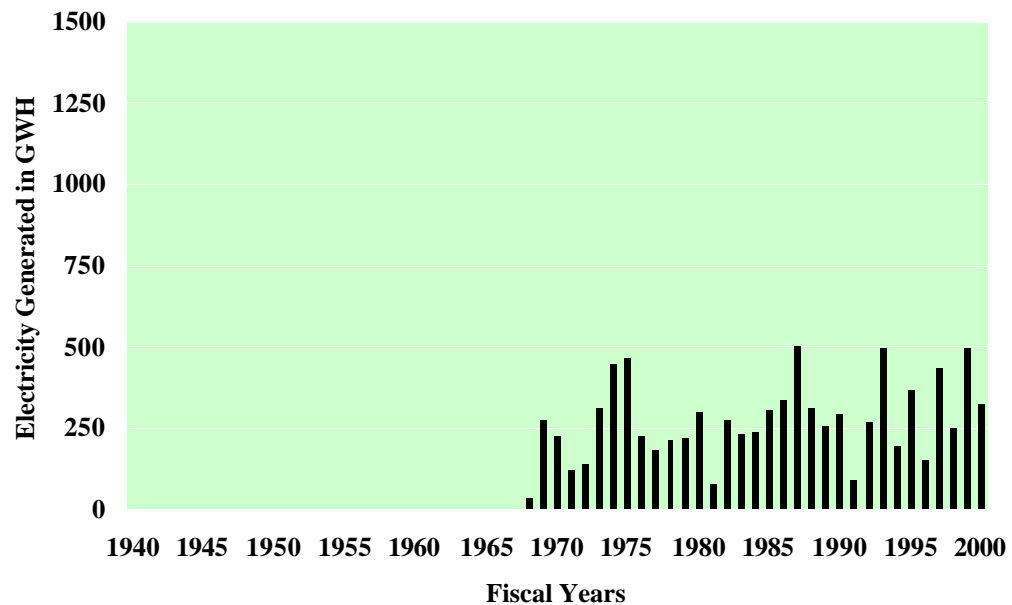
Norfolk Lake



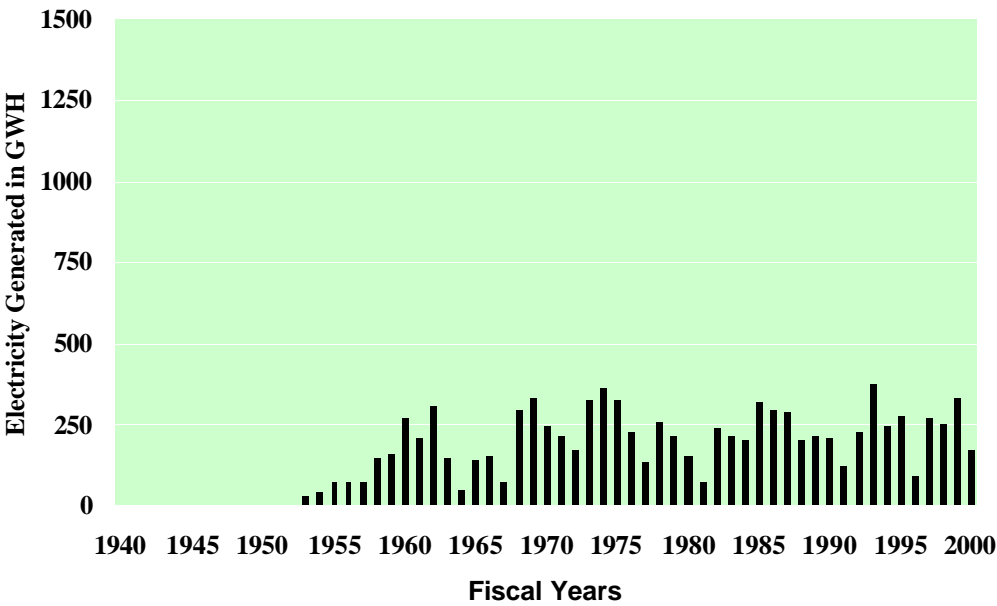
Greers Ferry Lake



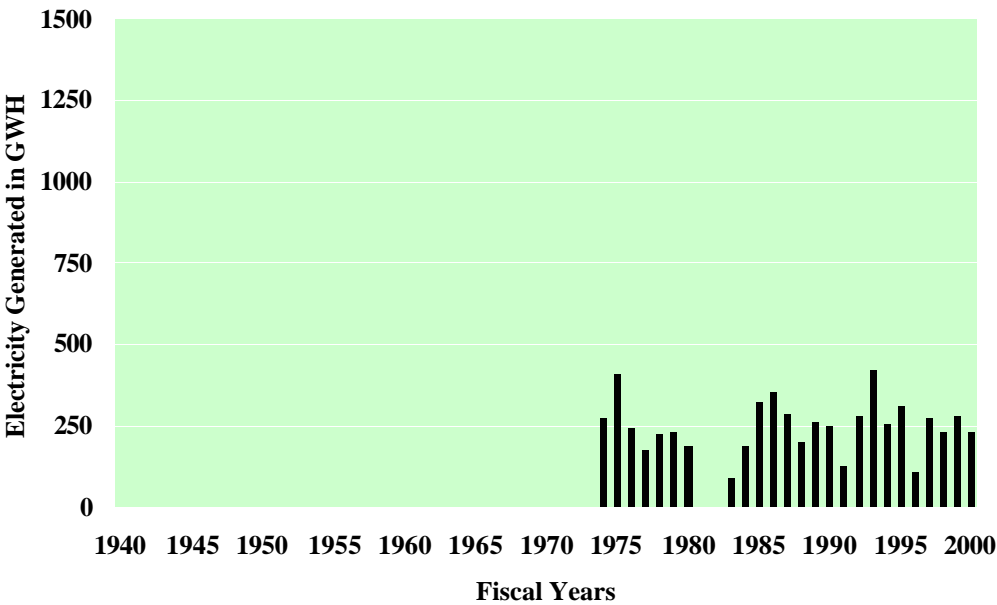
Keystone Lake



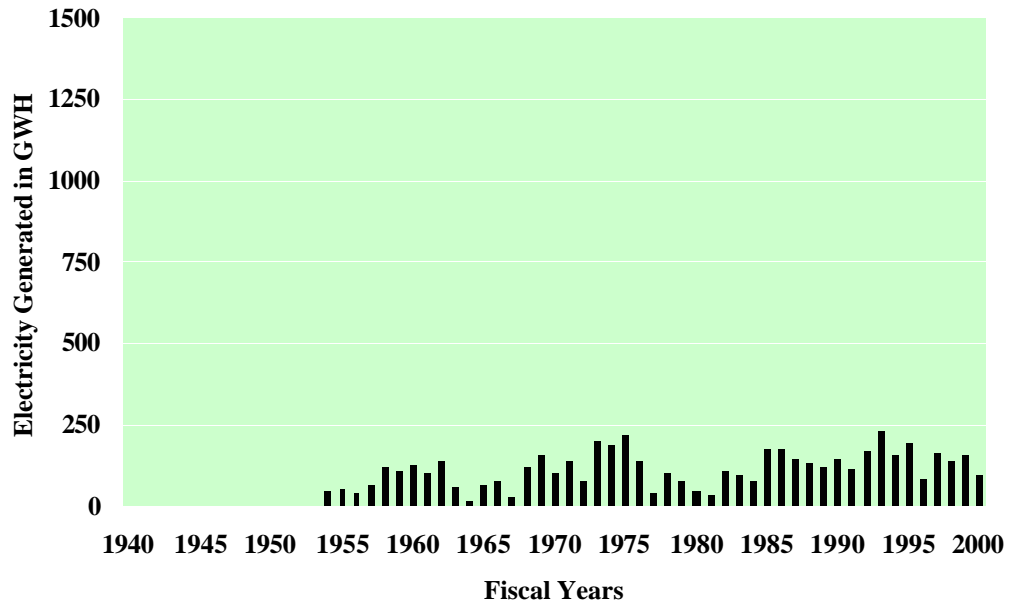
Fort Gibson Lake



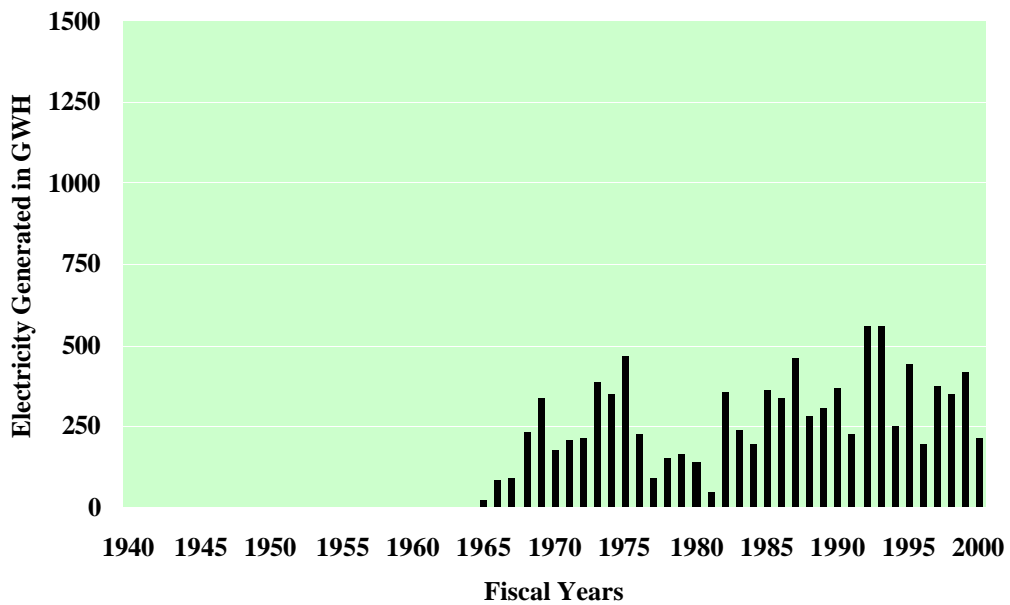
Webbers Falls



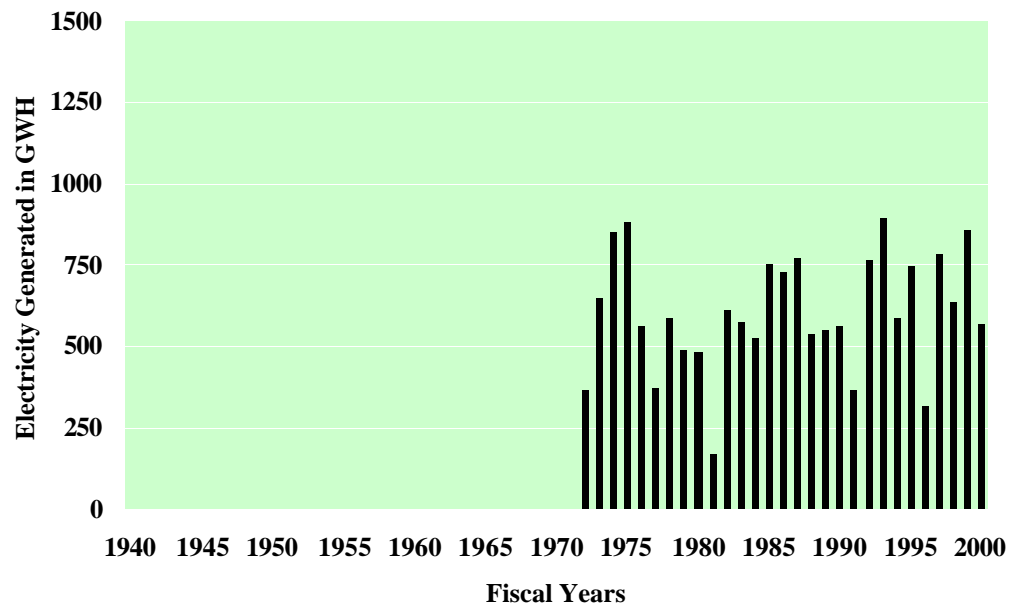
Tenkiller Ferry Lake



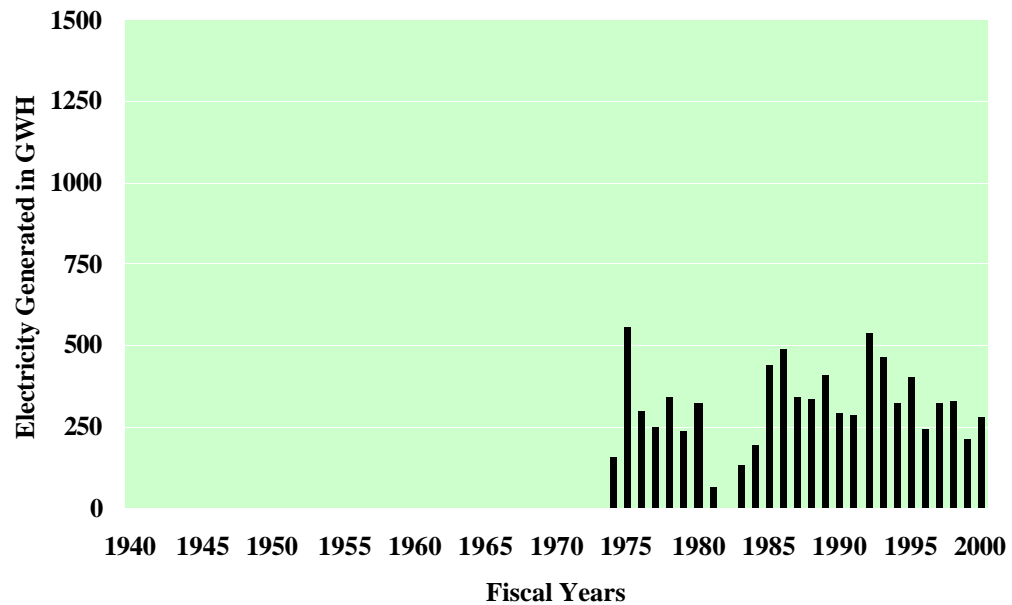
Eufaula Lake



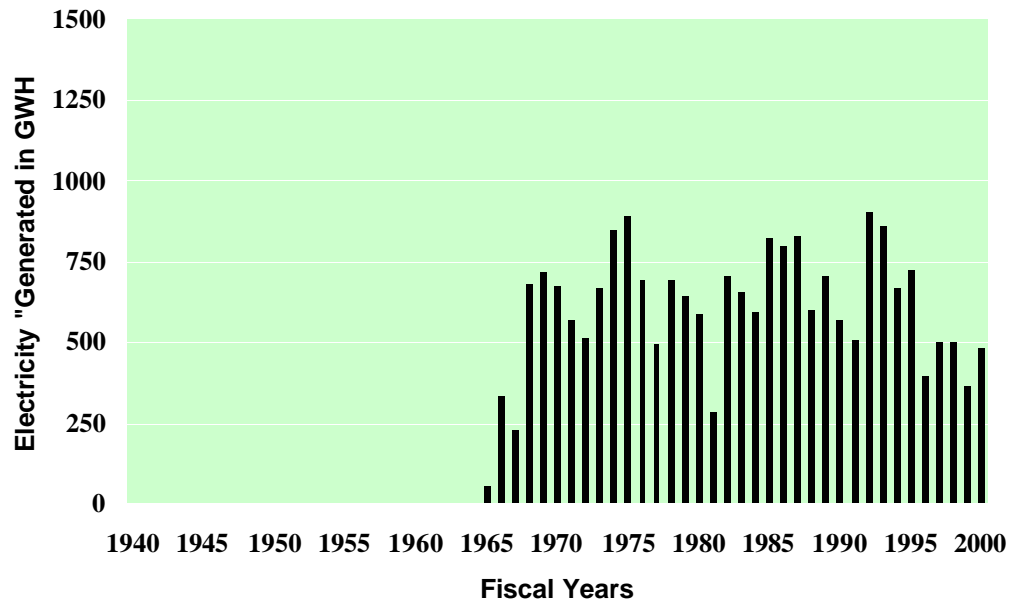
Robert S. Kerr



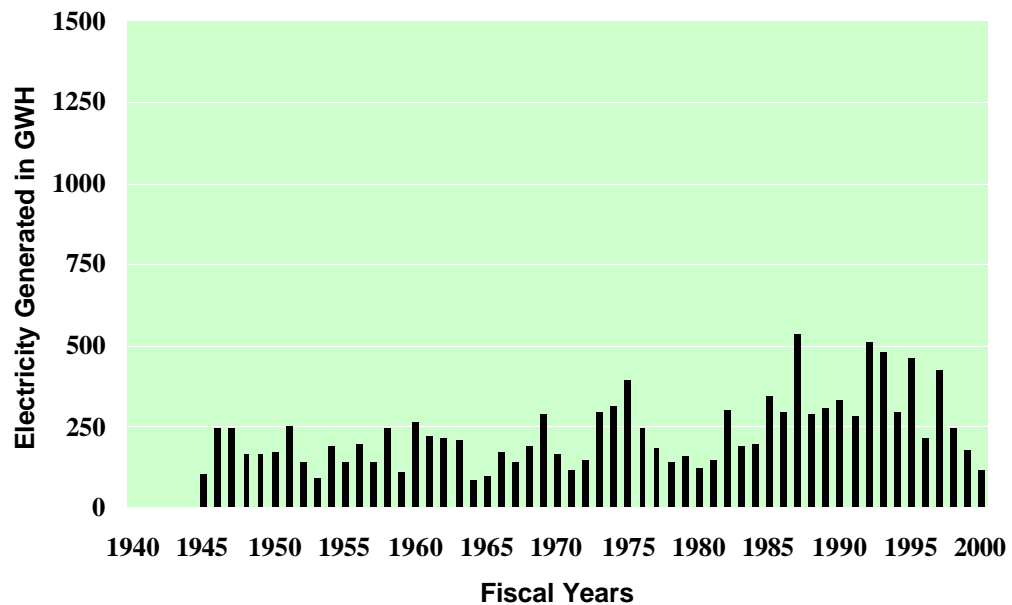
Ozark-Jetta Taylor



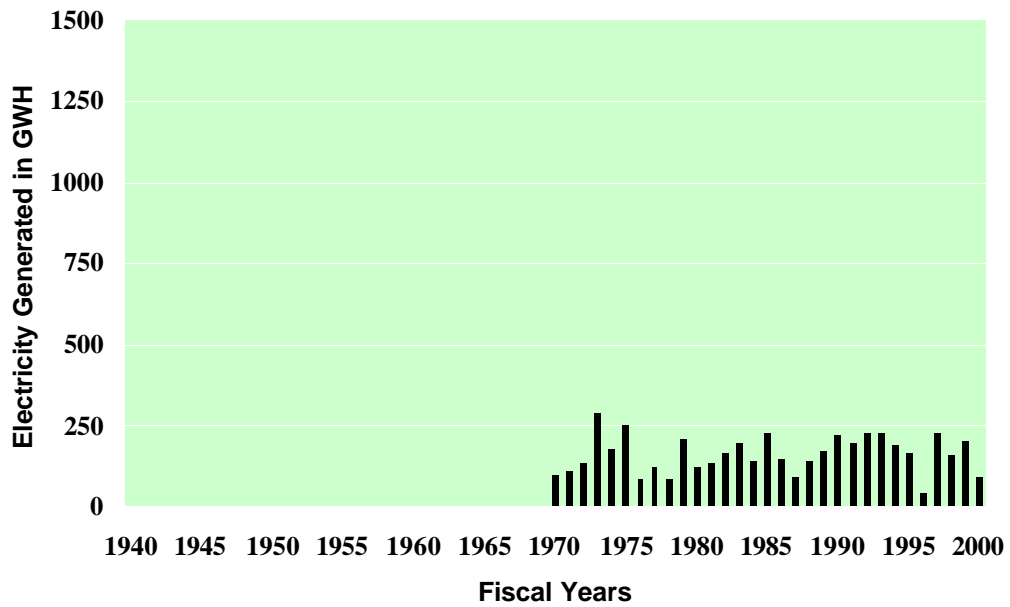
Dardanelle



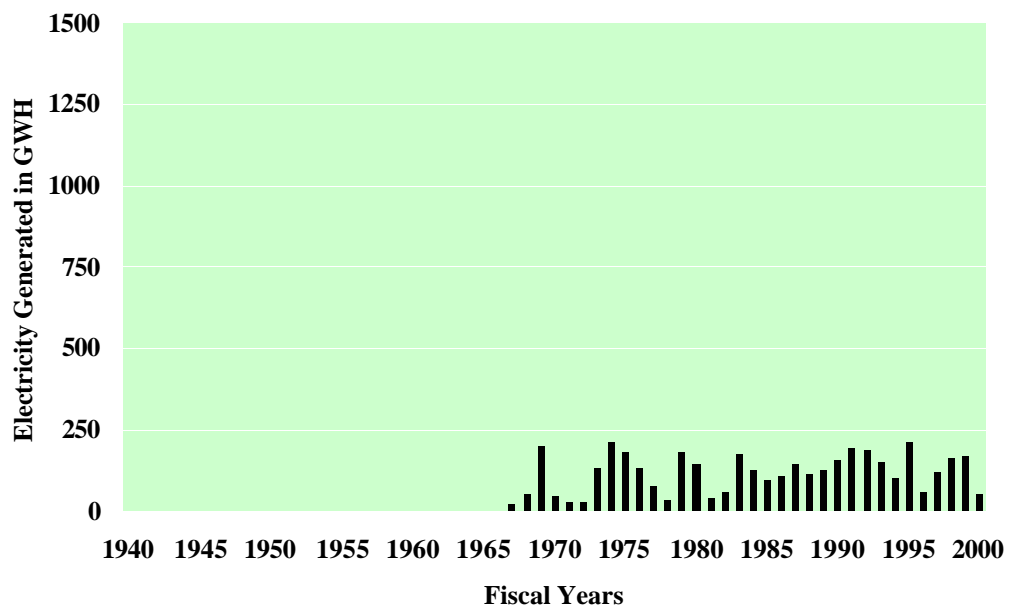
Denison Dam



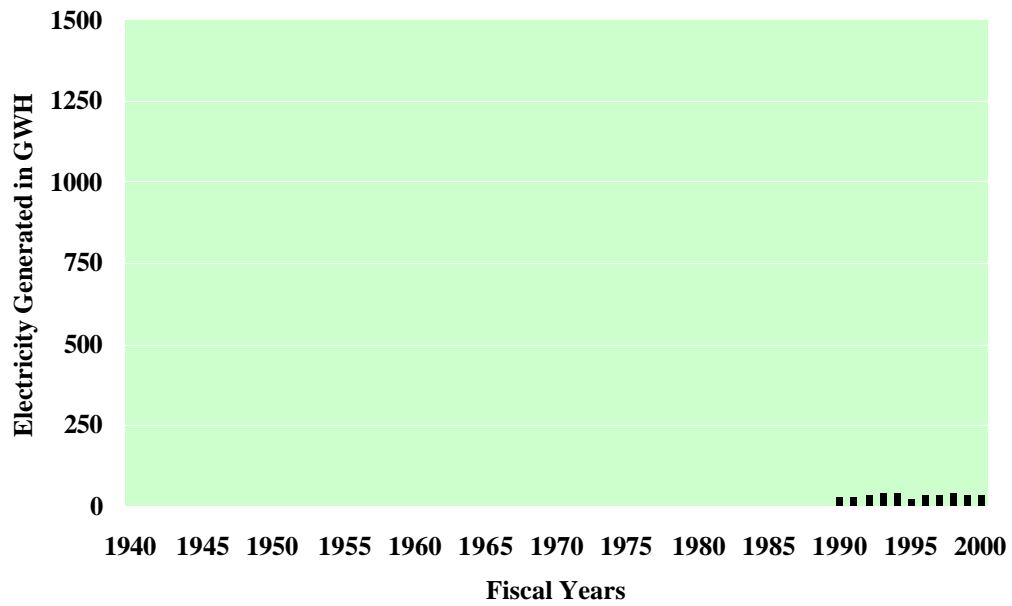
Broken Bow Lake



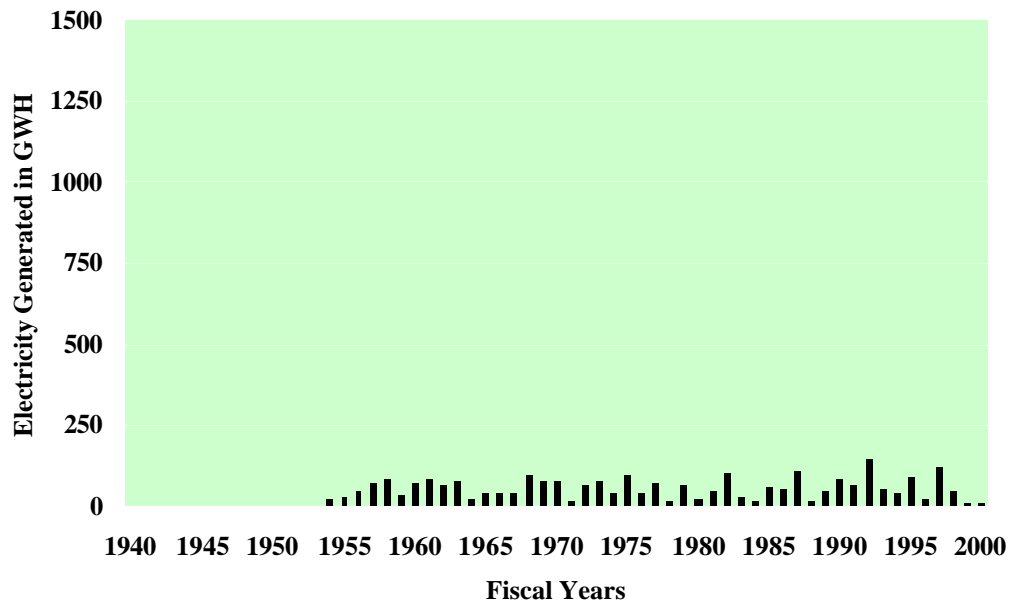
Lake Sam Rayburn



Town Bluff



Whitney Lake



SECTION VI
FORT WORTH DISTRICT
WATER CONTROL ACTIVITIES

SECTION VI – FORT WORTH DISTRICT WATER CONTROL ACTIVITIES

1. ANNUAL FLOOD DAMAGES PREVENTED PER RIVER BASIN.

Annual flood damages prevented by river basin and project for both Corps' and Section 7 lakes are shown in the following table. Table 7 presents the damages prevented for both FY 2000 and the cumulative through FY 2000.

Table 7
Fort Worth District
Annual Flood Damages Prevented Through FY 2000
(Current Dollars)
Not Adjusted For Inflation

| PROJECT | FY 2000 DAMAGES PREVENTED | CUMULATIVE BENEFITS THROUGH FY 2000 |
|--|--|--|
| Brazos River Basin | | |
| Aquilla | \$ 358,000 | \$ 19,775,800 |
| Belton | \$ 642,500 | \$ 141,045,700 |
| Georgetown | \$ 0 | \$ 5,473,700 |
| Granger | \$ 20,700 | \$ 31,529,100 |
| Proctor | \$ 0 | \$ 38,810,700 |
| Somerville | \$ 213,500 | \$ 66,013,400 |
| Stillhouse | \$ 31,400 | \$ 35,672,400 |
| Waco | \$ 0 | \$ 117,580,400 |
| Whitney | \$ 385,700 | \$ 233,328,100 |
| Basin Total | \$ 1,651,800 | \$ 689,229,300 |
| Colorado River Basin | | |
| Hords Cheek | \$ 0 | \$ 937,000 |
| O.C. Fisher | \$ 0 | \$ 2,376,000 |
| Basin Total | \$ 0 | \$ 3,313,000 |
| Guadalupe-San Antonio River Basin | | |
| Canyon | \$ 0 | \$ 177,939,800 |
| San Antonio | (no est.) | \$ 117,515,000 |
| Basin Total | \$ 0 | \$ 295,454,800 |

Table 7
Fort Worth District
Annual Flood Damages Prevented Through FY 2000
(Current Dollars)
Not Adjusted For Inflation

| | | |
|-------------------------------|----------------|-------------------|
| Neches River Basin | | |
| Sam Rayburn | \$ 0 | \$ 665,018,100 |
| Basin Total | \$ 0 | \$ 665,018,100 |
| Red River Basin | | |
| Cooper | \$ 0 | \$ 5,022,700 |
| Lake O'The Pines | \$ 434,400 | \$ 13,866,000 |
| Wright Patman | \$ 0 | \$ 13,859,000 |
| Basin Total | \$ 434,400 | \$ 32,747,700 |
| Trinity River Basin | | |
| Bardwell | \$ 629,200 | \$ 13,220,600 |
| Benbrook | \$ 448,541,800 | \$ 3,470,587,500 |
| Grapevine | \$ 2,447,600 | \$ 4,370,410,200 |
| Joe Pool | \$ 83,015,300 | \$ 905,171,300 |
| Lavon | \$ 6,660,500 | \$ 211,575,200 |
| Navarro Mills | \$ 2,314,800 | \$ 48,311,000 |
| Lewisville | | |
| And Ray Roberts | \$ 10,619,700 | \$ 17,293,255,100 |
| Basin Total | \$ 554,228,900 | \$ 26,312,530,900 |
| Colorado River Basin * | | |
| Marshall Ford | \$ 0 | \$ 277,892,300 |
| Twin Buttes | \$ 0 | \$ 1,118,000 |
| Basin Total | \$ 0 | \$ 279,010,300 |
| Grand Total | \$ 556,315,100 | \$ 28,277,304,100 |

* Built by Bureau of Reclamation but under
Corps of Engineers flood control jurisdiction.

2. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS PROJECTS.

Flood damages prevented by Fort Worth District projects during FY 2000 in the State of Texas was \$556,315,100.

3. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS SUPPORTED EMERGENCY OPERATIONS.

Not available.

4. SPECIAL RESERVOIR OPERATIONS.

(a) General. During FY 2000, the drought that began in 1997 continued to worsen. By the end of the year, “Moderate” to “Severe” drought conditions existed in 8 of the 10 climatic regions in Texas according to the Palmer Drought Severity Index (PDSI). “Extreme” drought conditions existed in the Edwards Plateau and the Trans-Pecos regions. The PDSI runs from moderate, to severe, to extreme, in order of increasing severity. During the summer, the Dallas-Fort Worth Metroplex went 84 consecutive days without measurable rain. Six District Lakes set new record lows during the year. However, during the fiscal year, the drought was temporarily interrupted by some minor flooding. Details of flood operations, drought conditions, and deviations from approved Water Control Plans are described in the following paragraphs.

(b) Flood Control and Drought Operations.

(1) General. The U. S. Army Corps of Engineers, Fort Worth District, operates twenty-five lakes in the State of Texas. These lakes are located in six major river basins and are operated to provide for flood control, water supply, hydropower, and recreational activities. Three of these lakes are located in the Red River Basin, two in the Neches River Basin, eight in the Trinity River Basin, nine in the Brazos River Basin, two in the Colorado River Basin, and one in the Guadalupe River Basin. The following provides an overview of the flood events and the drought conditions in the District, the impacts on Corps' lakes and some of the coordination that was required.

(2) Sulphur River Basin. The Sulphur River Basin is located in northeastern Texas and flows into the Red River. The basin experienced slightly below normal rainfall during FY 2000. However, the three District Lakes in the basin experienced only 61% of normal inflow. This basin was not significantly affected by the drought or flooding.

(3) Neches River Basin. The Neches River Basin is located in eastern Texas. Sam Rayburn Reservoir experienced only 68% of normal rainfall and 48% of normal inflow for the year. As a result, the conservation storage dropped from 922,600 acre-feet, or

64% at the beginning of the year to 587,000 acre-feet, or 41% at the end of the year. There were no floods during FY 2000.

(4) Trinity River Basin. The Trinity River Basin contains what may be one of the most complex flood control systems in the country and one of the more challenging to manage. The river and its tributaries flow through two major cities and a mid-cities area of 4.2 million people. The basin's diverse flood protection system includes lakes, levees, channel improvements and local flood protection projects. Although there are eight flood control lakes in the basin, only 33% of the drainage area is controlled. The District Lakes in the basin experienced only 59% of normal inflow for the year. As a result, the basin conservation storage dropped from 1,660,200 acre-feet, or 72% at the beginning of the year to 1,329,300 acre-feet, or 57% at the end of the year. Benbrook, Lewisville, and Ray Roberts Lakes set new record lows during the year. A flood occurred within the drought during June 2000. This flood caused Benbrook, Joe Pool, Lavon, Navarro Mills, and Bardwell Lakes to go into their flood pools. Lewisville, Grapevine, and Ray Roberts Lakes remained below the top of their conservation pools. This flood caused some damage. However, without the Lakes, it would have caused moderate to severe damage in the Dallas-Fort Worth Metroplex.

(5) Brazos River Basin. The Brazos River Basin is located west of the Trinity River and flows from north central Texas southeasterly to the Gulf of Mexico. The District Lakes in the basin experienced only 77% of normal rainfall and only 22% of normal inflow for the year. As a result, the basin conservation storage dropped from 971,400 acre-feet, or 75% at the beginning of the year to 897,400 acre-feet, or 70% at the end of the year. However, this does not show the severity of the drought in certain areas within the basin. For instance, the inflow into Proctor Lake was only 5,800 acre-feet, or 7% of normal for the year. As a result, the conservation storage in Proctor Lake fell from 18,800 acre-feet, or 38% at the beginning of the year to 1,300 acre-feet, or 3% at the end of the year. Proctor Lake is the sole source of water for seven small communities and numerous point sources. The inflow into Lake Georgetown was only 7,600 acre-feet, or 7% of normal. As a result, the conservation storage in Lake Georgetown fell from 24,200 acre-feet, or 82% at the beginning of the year to 7,400 acre-feet, or 25% at the end of the year. The Brazos River Authority is currently constructing a pipeline from Stillhouse Hollow Lake to Lake Georgetown that will be used to transfer water into Lake Georgetown. Aquilla, Proctor, and Georgetown Lakes set new record lows during the year. There was only minor flooding during FY 2000.

(6) Colorado River Basin. The Colorado River Basin is located west of the Brazos River and flows generally southeasterly to the Gulf of Mexico. O.C. Fisher Lake received only 7.03 inches of rain, or 33% of normal for the year. The inflow was only 7,700 acre-feet, or 28% of normal. O.C. Fisher Lake remained in the dead pool for the entire year. Hords Creek Lake received only 16.54 inches of rain, or 65% of normal for

the year. The inflow into Hords Creek Lake was only 2,300 acre-feet, or 64% of normal. As a result, the conservation storage in Hords Creek Lake fell from 1,600 acre-feet, or 27% at the beginning of the year to 1,000 acre-feet, or 17% at the end of the year. There were no floods during FY 2000.

(7) Guadalupe River Basin. The Guadalupe River Basin, located west of the Colorado River, is one of the smaller basins and only has one flood control lake. Canyon Lake controls only 28 percent of the basin above Victoria, Texas. The Blanco and San Marcos watersheds also generate major runoff. For this reason, controlling flows that pass through Cuero and Victoria is difficult at best and often impossible. Canyon Lake received only 25.36 inches of rain, or 75% of normal during the year. The inflow into Canyon Lake for the year was only 71,800 acre-feet, or 23% of normal. As a result, the conservation storage fell from 364,800 acre-feet, or 97% at the beginning of the year to 330,200 acre-feet, or 87% at the end of the year. There were no floods during FY 2000.

(c) Deviations from Water Control Plans. During the year, the Fort Worth District requested only two deviations from the approved Water Control Plans for its lake projects. One deviation was for the repair of the stilling basin at Waco Lake, and the other was for a recreational release at Canyon Lake.

5. **HYDROPOWER PRODUCTION.**

Hydropower production by project for Fiscal Years 1996 through 2000 is shown in table 8. All values shown below are in units of Gigawatt Hours (GWH).

Table 8
Fort Worth District
Hydropower Production By Project
For Fiscal Years 1996 Through 2000
(GWH)

| Project | 1996 | 1997 | 1998 | 1999 | 2000 |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| Sam Rayburn | 58.2 | 116.9 | 160.0 | 170.5 | 57.3 |
| | | | | | |
| Town Bluff (R.D. Willis) | 34.6 | 32.6 | 39.1 | 35.4 | 36.8 |
| | | | | | |
| Ray Roberts * | 2.1 | 5.2 | 2.8 | 3.6 | 3.8 |
| | | | | | |
| Lewisville * | 7.7 | 8.0 | 11.4 | 8.9 | 3.9 |
| | | | | | |

Table 8
Fort Worth District
Hydropower Production By Project
For Fiscal Years 1996 Through 2000
(GWH)

| Project | 1996 | 1997 | 1998 | 1999 | 2000 |
|--------------------|--------------|--------------|--------------|--------------|--------------|
| Whitney | 26.2 | 122.0 | 48.8 | 13.0 | 9.3 |
| | | | | | |
| Canyon * | 8.5 | 18.0 | 23.2 | 16.3 | 4.8 |
| | | | | | |
| Totals(GWH) | 137.3 | 302.7 | 285.3 | 247.7 | 115.9 |

* Non-Federal Hydropower Production

6. NAVIGATION ACTIVITIES.

Not applicable

7. WATER SUPPLY STORAGE.

Water supply information by project is shown in table 9.

Table 9
Fort Worth District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|--------------|-----------------------------|------------------------------|-----------------------------|-----------------|-----------|
| | | | | (FY 1999) | (FY 2000) |
| Aquilla | 33,600 | 6,802 | 1 | 2,610 | 2,925 |
| Bardwell | 42,800 | 42,800 | 1 | 2,847 | 3,926 |
| Belton | 372,700 | 372,700 | 2 | 51,758 | 64,161 |
| Benbrook | 72,500 | 72,500 | 3 | 31,156 | 41,233 |
| Canyon | 366,400 | 366,400 | 1 | 116,930 | 17,109 |
| Cooper | 273,000 | 273,000 | 3 | 4,866 | 4,948 |
| Georgetown | 29,200 | 29,200 | 1 | 12,325 | 18,243 |
| Granger | 37,900 | 5,128 | 1 | 2,400 | 5,859 |
| Grapevine | 161,250 | 161,250 | 3 | 37,833 | 26,058 |

Table 9
Fort Worth District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|------------------|-----------------------------------|------------------------------------|--------------------------------------|--------------------|-----------|
| | | | | (FY 1999) | (FY 2000) |
| Hords Creek | 5.780 | 5.780 | 1 | 255 | 233 |
| Joe Pool | 142,900 | 21,435 | 1 | 4,391 | 4,576 |
| Lake O'The Pines | 250,000 | 250,000 | 1 | 9,495 | 17,371 |
| Lavon | 380,000 | 380,000 | 1 | 217,701 | 262,901 |
| Lewisville | 436,000 | 436,000 | 2 | 245,338 | 237,707 |
| Navarro Mills | 53,200 | 53,200 | 1 | 6,655 | 7,721 |
| O.C. Fisher | 80,400 | 80,400 | 1 | 0 | 797 |
| Proctor | 31,400 | 31,400 | 1 | 13,140 | 12,321 |
| Ray Roberts | 799,600 | 415,784 | 2 | 31,985 | 160,499 |
| Sam Rayburn | 43,000(1) | 43,000(1) | 2 | 0 | 0 |
| Somerville | 143,900 | 143,900 | 1 | 2,859 | 42,904 |
| Stillhouse | 204,900 | 204,900 | 1 | 6,868 | 19,067 |
| Town Bluff | (1) | (1) | 1 | 1,848,198 | 1,328,132 |
| Waco | 104,100 | 104,100 | 2 | 30,235 | 32,490 |
| Whitney | 50,000 | 50,000 | 1 | 0 | 0 |
| Wright Patman | 216,500(2) | 91,263 | 1 | 51,159 | 52,570 |

- (1) LNVA is permitted to withdraw from the Town Bluff project an amount not to exceed 2,000 cfs. This lake acts as a re-regulation dam for Sam Rayburn power releases.
- (2) Maximum available under the operating rule curve. The Second contract with the City of Texarkana specifies that storage is based on "total operating rule curve storage space". A third contract with Texarkana supercedes this second contract and is effective when the pool raise is accomplished.

8. LAKE ATTENDANCE.

Lake attendance for both the Fort Worth District Corps' lakes and Section 7 lakes is presented in table10. The attendance hours are presented for the period FY 1996 through FY 2000. Project attendance is extrapolated from the estimated total hours that each visitor spent at each lake.

Table 10
Fort Worth District
Annual Lake Attendance
For Fiscal Years 1996 Through 2000
(1000's Visitor Hours)

| LAKE PROJECT | 1996 | 1997 | 1998 | 1999 | 2000 |
|---------------------|----------------|----------------|----------------|----------------|----------------|
| Aquilla | 254 | 206 | 202 | 208 | 200 |
| Bardwell | 1,431 | 1,282 | 953 | 1,297 | 822 |
| Belton | 8,179 | 6,876 | 10,749 | 12,478 | 10,493 |
| Benbrook | 2,875 | 6,184 | 6,829 | 5,102 | 4,653 |
| Canyon | 7,884 | 4,480 | 4,679 | 4,987 | 5,484 |
| Cooper | 364 | 1,929 | 1,932 | 1,823 | 1,871 |
| Georgetown | 5,859 | 3,932 | 3,837 | 4,222 | 4,220 |
| Granger | 1,338 | 1,070 | 1,134 | 1,141 | 1,070 |
| Grapevine | 4,401 | 4,606 | 4,203 | 4,839 | 3,602 |
| Hords Creek | 2,312 | 2,343 | 2,427 | 2,530 | 2,485 |
| Joe Pool | 10,216 | 6,062 | 4,672 | 5,058 | 8,726 |
| Lake O' the Pines | 8,828 | 7,673 | 6,720 | 7,802 | 10,112 |
| Lavon | 5,581 | 6,943 | 6,232 | 5,436 | 6,239 |
| Lewisville | 9,437 | 10,522 | 12,953 | 13,423 | 11,508 |
| Navarro Mills | 4,665 | 5,853 | 4,068 | 4,665 | 4,288 |
| O.C. Fisher | 1,511 | 2,569 | 2,397 | 3,059 | 3,661 |
| Proctor | 2,257 | 2,211 | 2,563 | 2,326 | 1,844 |
| Ray Roberts | 2,473 | 23,750 | 21,974 | 26,785 | 22,946 |
| Sam Rayburn | 12,130 | 15,908 | 17,489 | 17,377 | 16,962 |
| Somerville | 15,235 | 16,162 | 15,316 | 18,211 | 16,815 |
| Stillhouse Hollow | 1,436 | 1,167 | 2,379 | 2,660 | 2,230 |
| Town Bluff | 4,533 | 4,120 | 4,186 | 4,389 | 4,796 |
| Waco | 3,044 | 4,089 | 3,300 | 4,611 | 4,076 |
| Whitney | 6,258 | 7,177 | 6,392 | 6,190 | 6,064 |
| Wright Patman | 13,592 | 13,499 | 13,248 | 13,033 | 13,578 |
| *Marshall Ford | --- | --- | --- | --- | --- |
| *Twin Buttes | --- | --- | --- | --- | --- |
| Total | 136,093 | 160,613 | 160,834 | 173,652 | 168,745 |

* These are Section 7 lakes.

9. COOPERATIVE PROGRAMS.

(a) **National Weather Service.** The Fort Worth District transferred \$97,491 to the National Weather Service (NWS) during FY 2000. The NWS maintains a total of 139 weather stations incorporated within the reimbursable network program. Rainfall summaries and additional hydrometeorological information are transmitted to the District Office via Automated Field Observations and Services (AFOS).

(b) **U.S. Geological Survey.**

(1) **General.** The U.S. Geological Survey (USGS) performed operation and maintenance for all stream flow, lake level, and water quality stations within the Fort Worth District. In addition to the cooperative stream-gaging program, the USGS under memorandum of agreement provided operation and maintenance service to the Fort Worth District Data Collection Platform network. The USGS operated 118 stream flow gages and 24 water quality stations in FY 2000. Also, the USGS maintains 93 tipping bucket rain gages at stream flow gages that collect rainfall data at 15-minute intervals.

(2) **Funds.** The total cost of the stream-gaging program and for the operation and maintenance of the Data Collection Platform network program in FY 2000 was \$960,274.

10. SEDIMENT ACTIVITIES.

There are no reportable sedimentation activities in the Fort Worth District for FY 2000.

11. FY 2000 PROJECT VISITATION BY WATER MANAGEMENT PERSONNEL.

During FY 2000, the staff of the Reservoir Control Branch visited Aquilla, Bardwell, B.A. Steinhagen, Belton, Benbrook, Canyon, Georgetown, Granger, Grapevine, Joe Pool, Lewisville, Marshall Ford, Navarro Mills, Proctor, Ray Roberts, Stillhouse Hollow, Whitney, and Wright Patman Lakes, Lake O'the Pines, and Sam Rayburn Reservoir.

12. WATER CONTROL STAFFING.

Table 11
Fort Worth District
Water Control Staff

| Name | Org. Code | Position | Phone #. | Grade |
|------------------|------------------|-----------------------|--------------------|--------------|
| Paul Rodman | CESWF-OD-L | Chief, Water Control | 817-978-3134 x1708 | GS-13 |
| Jerry Cotter | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1721 | GS-12 |
| Fred Jensen | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1715 | GS-11 |
| Tom Johnston | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1711 | GS-12 |
| Paul Lauderdale | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1719 | GS-11 |
| Jim McClain | CESWF-OD-L | Hydraulic Engineer | 817-978-3134x1687 | GS-12 |
| Minnie Nickerson | CESWF-OD-L | Hydrologic Technician | 817-978-3134 x1686 | GS-07 |
| Steve Pilney | CESWF-OD-L | Hydraulic Engineer | 817-978-3134x1693 | GS-12 |
| John Rael | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1717 | GS-12 |
| Lynne Rednour | CESWF-OD-L | Hydrologic Technician | 817-978-3134 x1718 | GS-06 |
| Mike Schwind | CESWF-OD-L | Hydraulic Engineer | 817-978-3134 x1712 | GS-12 |
| Rey Sorgee | CESWF-OD-L | Hydrologist | 817-978-3134x1716 | GS-11 |

SECTION VII

**GALVESTON DISTRICT
WATER CONTROL ACTIVITIES**

SECTION VII – GALVESTON DISTRICT WATER CONTROL ACTIVITIES

1. ANNUAL FLOOD DAMAGES PREVENTED PER RIVER BASIN.

Annual flood damages prevented by basin and project for FY 00 are shown in table 12.

Table 12
Galveston District
Annual Flood Damages Prevented (\$000) Through FY 00
(Current Dollars)
Not Adjusted For Inflation

| PROJECT | FY 00 DAMAGES PREVENTED | CUMULATIVE BENEFITS THROUGH FY 00 |
|---|--|--|
| Taylors Bayou Basin | | |
| Port Arthur (Hurricane –Flood) | 0 | 6130 |
| San Jacinto River Basin | | |
| Addick & Barker | 415 | 1,613,391 |
| Brays Bayou | 18 | 262,145 |
| White Oak Bayou | 15 | 28,454 |
| Vince Bayou | 641 | 15,320 |
| Moses Lake | | |
| Texas City, Texas (Hurricane –Flood) | 0 | 10,140 |
| Jones Bay | | |
| Highland Bayou | 0 | 0 |
| Gulf of Mexico | | |
| Galveston Seawall | 0 | 400,120 |
| Old Brazos River Basin | | |
| Freeport (Hurricane –Flood) | 0 | 8,170 |
| Lavaca River Basin | | |
| Hallettsville | 1 | 642 |
| Colorado River Basin | | |
| Matagorda | 0 | 844 |

Table 12
Galveston District
Annual Flood Damages Prevented (\$000) Through FY 00
(Current Dollars)
Not Adjusted For Inflation

| PROJECT | FY 00 DAMAGES PREVENTED | CUMULATIVE BENEFITS THROUGH FY 00 |
|--------------------------|--|--|
| Nueces River Basin | | |
| Three Rivers | 0 | 3 |
| San Fernando Creek Basin | | |
| Tranquitas Creek | 0 | 5,333 |
| San Diego Creek | 0 | 2,908 |
| Total | 1,090 | 2,353,600 |

2. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS PROJECTS.

Annual flood damages prevented by Corps projects during FY 00 in the state of Texas for our district were \$1,090,000.

3. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS SUPPORTED EMERGENCY OPERATIONS.

There are no Annual Flood Damages Prevented by Corps Supported Emergency Operations.

4. SPECIAL RESERVOIR OPERATIONS.

The Great Houston *Rubber Duck Race* on Buffalo Bayou was held again this year. Water was impounded and released to provide adequate water for the race. This benefit was a great success and will help the Houston area's blind and visually impaired.

The *Buffalo Bayou Regatta*, held in the spring of this year, was also a great success. The Buffalo Bayou Regatta has been held for the past twenty-seven years and is designed to bring attention to the ever improving water quality of Buffalo Bayou. The Buffalo Bayou Coalition uses the proceeds from the event to benefit projects in the parks along the bayou.

A deviation from the approved operating procedures this summer was requested due to the sudden appearance of alligators at Barker Dam. Although Addicks & Barker Reservoirs support a lot of wildlife; alligators are not one of them. Where these animals came from is not known. We had one ten foot alligator, one six foot alligator and one baby alligator. The dams are used a lot by the public for site seeing, picnics and jogging. Some have pets with them. We were concerned for the safety of the public around these alligators since there is not a lot food available for these animals to eat. The Texas Parks & Wildlife Department was notified to see if they would relocate these animals to a different location. They informed us that these alligators were too small to be relocated by them. We were not in favor of shooting these animals or allowing the alligators to go downstream into Buffalo Bayou which could potentially cause greater problems. After some deliberation by phone; Texas Parks & Wildlife sent out an alligator hunter to relocate these animals.

There were no other significant deviations made during the physcal year. The reservoirs were not impacted by these deviations.

5. HYDROPOWER PRODUCTION.

There are no Hydropower projects .

6. NAVIGATION ACTIVITIES.

A summary of dredge material removed in FY 99 for Navigation Projects is shown in table 13. Dredge material removed in FY 00 for Navigation Projects is not available at this time.

Table 13
Galveston District
Dredge Material on Navigation Projects
(Cubic Yards)

| Project | FY 1999 | FY 2000 |
|-----------------------------|----------------|----------------|
| Brazos Island Harbor | 1,327,240 | ----- |
| Corpus Christi Ship Channel | 4,033,300 | ----- |
| Freeport Harbor | 3,661,436 | ----- |

Table 13
Galveston District
Dredge Material on Navigation Projects
(Cubic Yards)

| Project | FY 1999 | FY 2000 |
|--------------------------------------|-------------------|----------------|
| Galveston Harbor & Channel | ----- | ----- |
| Houston Ship Channel | 290,880 | ----- |
| Matagorda Ship Channel | 1,873,400 | ----- |
| Sabine – Neches Waterway | 4,851,270 | ----- |
| Taylor’s Bayou | ----- | ----- |
| Mouth of the Colorado River | ----- | ----- |
| Trinity River and Tributaries | 630,000 | ----- |
| Texas City Channel | 1,674,000 | ----- |
| Cedar Bayou | 297,960 | ----- |
| Channel to Port Bolivar | ----- | ----- |
| Channel to Victoria & Seadrift | ----- | ----- |
| Channel to Red Bluff | ----- | ----- |
| Channel to Harlingen | ----- | ----- |
| Chocolate Bayou Channel | 587,040 | ----- |
| Channel to Port Mansfield | 208,000 | ----- |
| Channel to Palacios | 2,121,000 | ----- |
| Barbours Terminal Channel | 536,000 | ----- |
| Bayport Ship Channel | 2,017,000 | ----- |
| Greens Bayou | ----- | ----- |
| Subtotal | 24,108,526 | ----- |
| Gulf Intracoastal Waterway | | |
| Sabine River to Galveston | ----- | ----- |
| Galveston to Corpus Christi | 13,254,300 | ----- |
| Corpus Christi to the Mexican Border | 2,566,000 | ----- |
| Subtotal | 15,820,300 | ----- |
| TOTALS | 39,928,826 | ----- |

A consolidated statement of tonnage handled by ports and moving on the Gulf Intracoastal Waterway in the U.S. Army Engineer District, Galveston is shown in table 14.

Table 14
Galveston District
Waterborne Traffic on Navigation Projects
(Short Tons)

| Project | Calendar Year 1997 | Calendar Year 1998 |
|---|-------------------------------|-------------------------------|
| Houston Texas | 165,456,000 | 169,070,000 |
| Corpus Christi, Texas | 86,844,000 | 86,140,000 |
| Texas City, Texas | 56,646,000 | 49,477,000 |
| Beaumont, Texas | 48,665,000 | 60,052,000 |
| Port Arthur, Texas | 37,318,000 | 29,557,000 |
| Freeport, Texas | 26,281,000 | 29,014,000 |
| Galveston, Texas | 10,126,000 | 11,049,000 |
| Port Lavaca – Point Comfort (Matagorda) | 9,429,000 | 8,040,000 |
| Channel to Victoria, Texas | 5,000,000 | 5,298,000 |
| Chocolate Bayou, Texas | 3,983,000 | 4,048,000 |
| Brownsville, Texas | 2,284,000 | 2,799,000 |
| Orange, Texas | ----- | 756,000 |
| Sabine Pass Harbor, Texas | 725,000 | 1,200,000 |
| Harlingen, Texas (Arroyo Colorado) | 928,000 | 992,000 |
| Colorado River, Texas | 570,000 | 503,000 |
| Johnson Bayou, Louisiana | 313,000 | ----- |
| Dickinson, Texas | 669,000 | 1,073,000 |
| Sweeny, Texas (San Bernard River) | 578,000 | 565,000 |
| Port Isabel, Texas | 88,000 | 31,000 |
| Cedar Bayou, Texas | 435,000 | 666,000 |
| Rock Port, Texas | ----- | ----- |
| Channel to Aransas Pass, Texas | 91,000 | 48,000 |
| Port Mansfield, Texas | 8,000 | 3,000 |
| Anahuac, Texas | ----- | ----- |
| Channel to Liberty, Texas | ----- | ----- |

Table 14
Galveston District
Waterborne Traffic on Navigation Projects
(Short Tons)

| Project | Calendar Year 1997 | Calendar Year 1998 |
|---|-------------------------------|-------------------------------|
| Clear Creek, Texas | ----- | ----- |
| Double Bayou, Texas | ----- | ----- |
| Palacios, Texas | ----- | ----- |
| Total | 456,437,000 | 460,382,000 |
| Gulf Intracoastal Waterway, Texas | | |
| Sec. 1 (Sabine River to Galveston) | 47,676,000 | 45,122,000 |
| Sec. 2 (Galveston to Corpus Christi) | 28,599,000 | 28,351,000 |
| Sec. 3 (Corpus Christi To Mexican Border) | 2,400,000 | 2,361,000 |
| TOTAL | 78,675,000 | 75,834,000 |

7. WATER SUPPLY STORAGE.

There is no water supply storage associated with the Galveston Districts projects.

8. LAKE ATTENDANCE.

Addicks and Barker Reservoirs serve as major recreational areas for the Houston Metropolitan Area. Some of the facilities located in Addicks Reservoir are: baseball fields, soccer fields, private shooting range, 3-18 hole golf courses, veladrome (bicycle track), hike and bike trails, wildlife viewing facility and approximately 2000 picnic tables. Approximately 4,042,191 people utilized these facilities. Barker Reservoir encompasses: baseball fields, soccer fields, a public shooting range, a model airplane airport and approximately 200 picnic tables. Approximately 56,119 people utilized these facilities. Both reservoir facilities sponsor international and national events. Lake attendance is presented in table 15.

Table 15
Galveston District
Annual Lake Attendance
For Fiscal Years 1996 Through 2000
(1000's Visitor Hours)

| LAKE PROJECT | 1996 | 1997 | 1998 | 1999 | 2000 |
|---------------------|--------------|--------------|--------------|--------------|--------------|
| Addicks Reservoir | 2,179 | 1,960 | 2,124 | 1,814 | 4,042 |
| Barker Reservoir | 1,211 | 831 | 738 | 556 | 56 |
| Total | 3,390 | 2,791 | 2,862 | 2,370 | 4,098 |

9. COOPERATIVE PROGRAMS.

- a. **National Weather Service.** The cooperative program with the NWS provides for the operation and maintenance of precipitation gages and for the transmission of rainfall summaries. The total program cost for FY 2000 was \$9,365. The total program cost for FY 2001 is estimated at \$7,985.
- b. **U.S. Geological Survey.** Two cooperative programs are currently in existence with the USGS. One provides the operation and maintenance of stream gages and the second provides the operation and minor maintenance for Data Collection Platforms. The total cost of these programs for FY 2000 was \$324,660. The total cost for these programs for FY 2001 is estimated at \$326,940.

10. SEDIMENT ACTIVITIES.

A sediment policy was established in 1985 by the District to provide guidance relative to settling basins or alternative control methods on inflowing streams to reduce velocity and essentially preclude the permanent deposition of sediment in the Federally-owned lands of Addicks and Barker Reservoirs.

No inspection of sediment depositions was made during FY 00.

11. FY 00 PROJECT VISITATION BY WATER MANAGEMENT PERSONNEL.

The Addicks Project Office was visited during the fiscal year by Reservoir Control personnel. Reservoir operations were discussed and potential problems addressed with key personnel.

12.WATER CONTROL STAFFING.

Table 16
Galveston District
Water Control Staff

| Name | Org. Code | Position | Phone #. | Grade |
|-------------------|------------------|----------------------|-----------------|--------------|
| Charles Scheffler | CESWG-OD-O | Reservoir Operations | 409-766-3113 | GS-12 |
| Karl Brown | CESWG-OD-O | Reservoir Operations | 409-766-3069 | GS-12 |
| | | | | |

SECTION VIII

LITTLE ROCK DISTRICT WATER CONTROL ACTIVITIES

SECTION VIII – LITTLE ROCK DISTRICT WATER CONTROL ACTIVITIES

1. ANNUAL FLOOD DAMAGES PREVENTED PER RIVER BASIN.

The annual flood damages prevented by river basin during FY00 in the Little Rock District are shown in table 17.

**Table 17
Little Rock District
Annual Flood Damages Prevented
(Current Dollars)
Not Adjusted For Inflation**

| Basin | FY00 Damages Prevented |
|---|-------------------------------|
| ARKANSAS RIVER | |
| Little Rock District projects | \$8,047,800 |
| Tulsa District projects | \$16,532,800 |
| WHITE RIVER | |
| Little Rock District projects | \$9,310,400 |
| LITTLE RIVER | |
| Little Rock District projects | \$907,500 |
| Tulsa District projects | \$141,300 |
| Total Flood Damages Prevented FY00 | \$34,939,800 |

2. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS PROJECTS.

The annual flood damages prevented in each state served by the Little Rock District during FY00 are shown in table 18.

Table 18
Little Rock District
Annual Flood Damages Prevented In Each State
(Dollars)

| State | FY00 Damages Prevented |
|---|-------------------------------|
| ARKANSAS | |
| Levees, Arkansas River (Little Rock District) | \$6,977,400 |
| Reservoirs, Arkansas River (Little Rock District) | \$1,070,400 |
| Reservoirs, Arkansas River (Tulsa District) | \$16,532,800 |
| Levees, White River (Little Rock District) | \$980,400 |
| Reservoirs, White River (Little Rock District) | \$5,868,500 |
| Reservoirs, Little River (Little Rock District) | \$907,500 |
| Reservoirs, Little River (Tulsa District) | \$141,300 |
| ARKANSAS TOTAL | \$32,478,300 |
| | |
| MISSOURI | |
| Levees, White River (Little Rock District) | 0 |
| Reservoirs, White River (Little Rock District) | \$2,461,500 |
| MISSOURI TOTAL | \$2,461,500 |
| | |
| Total Damages Prevented For FY00 | \$34,939,800 |

3. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS SUPPORTED EMERGENCY OPERATIONS.

No emergency operations were required in FY00.

4. SPECIAL RESERVOIR OPERATIONS.

- a. General.** Rainfall over the Little Rock District in FY00 was well below average in all basins, averaging nearly 8.0 inches below normal in the White River Basin, and 10.5 inches below normal in the Arkansas and Little River Basins. The only month with above normal rainfall at all projects was June.
- b. White River System.**

(1) Flood Control Operations.

- (a)** In general, total rainfall for the water year was below normal at all projects. Specifically, total rainfall for the water year was 2.7 inches below normal at Beaver Lake, 6.2 inches below normal at Table Rock Lake, 7.9 inches below normal at Bull Shoals Lake, 7.4 inches below normal at Norfolk Lake, and 12.7 inches below normal at Greers Ferry Lake. The below normal rainfall trend that started in July of WY99, persisted into October and November of WY00. November was exceptionally dry with all lakes averaging nearly 3.5 inches below normal and was the largest deviation below normal for the water year. December saw above normal rainfall with all lakes averaging nearly 1.5 inches above normal except Greers Ferry. The below normal rainfall trend resumed in January and continued through April with average basin rainfall 0.5 inches below normal in January and February, 1.0 inch below normal in March and 2.5 inches below normal in April. Average basin rainfall in May was near normal. June, the wettest month of the water year, saw an average basin rainfall of 3.7 inches above normal, and ranged from 1.6 inches above normal at Greers Ferry Lake to 7.3 inches above normal at Beaver Lake. Rainfall in July averaged 1.3 inches above normal at Beaver, Table Rock and Bull Shoals Lakes but 0.1 and 1.3 inches below normal at Norfolk and Greers Ferry Lakes, respectively. The below normal rainfall trend again resumed in August and continued through September with average basin rainfall 2.6 inches below normal in August and 0.7 inches below normal in September.
- (b)** Water Year 2000 began with all five multipurpose projects in their conservation pools with an average 73 percent conservation storage utilized. Specifically, Beaver Lake started at elevation 1112.6, 77% conservation storage utilized; Table Rock Lake started at elevation 907.1, 68% conservation storage utilized; Bull Shoals Lake started at elevation 645.3, 62% conservation storage utilized; Norfolk Lake started at elevation 547.1, 85% conservation storage utilized; and Greers Ferry Lake started at elevation 454.9, 73% conservation storage utilized. At Beaver Lake, as releases for project purposes exceeded inflow, the lake continued to recede and reached its lowest elevation of the water year, elevation

1109.5, on 01 December with 69% conservation storage utilized. Basin rainfall totaling 4.5 inches in December caused a minor rise to elevation 1111.1 in late December with subsequent rainfall, averaging slightly over 2.0 inches per month from January through April and an additional 6.0 inches in May, causing the pool to rise further to near elevation 1115.0, 82% conservation storage utilized, in late May. Basin rainfall totaling 12.2 inches in June caused the only rise of the water year into the flood pool with the lake cresting at elevation 1124.4, 34% flood storage utilized, on 22 June. Flood storage was promptly evacuated and the lake returned to seasonal pool elevation on 07 July. As conservation operations resumed, project purposes again exceeded inflow causing the lake to recede to elevation 1112.4, 75% conservation storage utilized, by the end of the water year. Table Rock Lake also continued to recede, reaching its lowest elevation of the water year, elevation 899.9, on 05 February with 50% conservation storage utilized. A period of voluntary reduction in hydropower generation and rainfall averaging 2.8 inches per month from February through May caused the pool to reach elevation 907.0, 67% conservation storage utilized, by 01 June. Basin rainfall totaling 8.8 inches in June caused a very minor rise into the flood pool as the lake crested at elevation 917.2 with 1% flood storage utilized on 03 July. The lake returned to seasonal pool elevation five days later, continued to recede, and ended the water year at elevation 909.4 with 75% conservation storage utilized. At Bull Shoals Lake, the lake continued to recede and reached its lowest elevation of the water year, elevation 639.8, on 06 December with 41% conservation storage utilized. December rainfall, totaling 4.9 inches, caused a minor rise to elevation 643.5 in late January but was quickly followed by another recession to elevation 641.3 in mid-February. Rainfall in March, April and May, combined with another voluntary reduction in hydropower generation, was sufficient to cause another minor rise to elevation 644.2 by mid-June. Basin rainfall totaling 7.0 inches in June caused the lake to rise to its highest elevation of the water year, cresting at elevation 648.9 on 05 July with 70% conservation storage utilized. This elevation was again reached on 30 July before the lake receded to its end of the water year elevation of 642.8, 48% conservation storage utilized. Norfolk continued its decline as well receding to elevation 546.3 on 02 December. Basin rainfall totaling 5.1 inches in December caused the pool to rise to elevation 548.5 by mid-January followed by a recession to elevation 547.2 by mid-February. With both February and March basin rainfall averaging 3.0 inches, the lake experienced another rise to elevation 548.9 on 05 March. The following recession brought the lake to its lowest elevation of the water year, elevation 545.7, on 12 April with 81% conservation storage utilized. Basin rainfall amounts of 4.5, 5.8 and 3.1 inches in May, June and July, respectively, caused the lake to rise to crest at elevation 551.7 on 30 July with 93% conservation storage utilized, its highest elevation of the water year. This was followed by a steady recession and the lake ended the water year at elevation 546.2, 78% conservation storage utilized. At Greers Ferry Lake, the

lowest elevation of the water year was quickly reached on 01 December at elevation 452.3 with 62% conservation storage utilized. Basin rainfall was consistently below normal from October through April but sufficient to cause the lake to rise to elevation 455.0 by the end of December, elevation 457.0 by late February, and elevation 460.7 in mid-March. This was followed by a minor recession to elevation 459.3 in early April. An average of 5.6 inches of rainfall in both May and June, the only months with above normal rainfall for the year, caused the only rise into the flood pool with the lake cresting at elevation 464.0 on 04 June with 8% flood storage utilized. Another minor rise to elevation 463.7 in late June was followed by a continual recession with the lake ending the water year at elevation 455.4 and 74% conservation storage utilized.

- (c) Clearwater Lake experienced no significant rises during FY00. There were several minor rises which raised the pool two to four feet above the conservation pool level. None utilized more than two percent of the available flood control storage. The annual rainfall total for the Clearwater basin was 10.0 inches below the period of record average. June was the wettest month of the year with rainfall exceeding the historical average by 2.8 inches.

(2) Low Dissolved Oxygen Impacts Hydropower To Releases.

- (a) **General.** Reduced hydropower generation capacity continued at three of the five multipurpose projects during FY 00 and the 1999 Low D.O. season. Maximum generation rates, recommended to the Southwestern Power Administration with the goal of maintaining dissolved oxygen in the hydropower releases at or above 4.0 parts per million, were discontinued at Bull Shoals and Norfork on 02 December and at Table Rock on 07 December. Oxygen depletion in the lower levels of the lakes impact generation capacity until lake turnover, on average occurring in early December, as was the case during FY 00. Also during FY 00 and the 2000 Low D.O. season hydropower generation capacity was reduced at two of the five multipurpose projects. Generation rates less than nameplate capacity were recommended beginning on 26 June at Table Rock and 30 August at Norfork. These recommendations occurred about the same time of year as experienced in the past. The Southwestern Power Administration voluntarily complied with all recommendations.
- (b) **Plan of Operation for the 2000 Low Dissolved Oxygen Season.** The Ad Hoc Committee on Project Operations, White River, Arkansas, developed a Plan of Operation for the 2000 Low Dissolved Oxygen Season, White and North Fork Rivers, Arkansas dated August 2000. Actions outlined in the plan

were aimed at maintaining a minimum 4.0 parts per million dissolved oxygen in the hydropower releases. These actions primarily consisted of spreading power loading across all available units, blocking open turbine vents, and reducing the maximum loading of each unit.

(c) **Dissolved Oxygen and Temperature Monitoring Program.** In FY 00, the dissolved oxygen and temperature monitoring program consisted of near-monthly lake profiles (dissolved oxygen and water temperature), from March through lake turnover, taken just upstream of the penstocks. Additional profiles were taken at Table Rock, Bull Shoals, and Norfolk Lakes during the period of rapid change in dissolved oxygen concentration. Real time data was collected from both COE and USGS dissolved oxygen and/or temperature gages at Beaver (tailwater), Table Rock (tailwater), School of the Ozarks (approximately 5 miles downstream of Table Rock Dam), Bull Shoals (unit 4 and 5 penstocks and left and right banks tailwater), Fairview (approximately 3 miles downstream of Bull Shoals Dam), Shipps Ferry (approximately 36 miles downstream of Bull Shoals Dam), Norfolk (unit 1 penstock and tailwater), Calico Rock (approximately 17 miles downstream of the confluence of the White and North Fork Rivers), Sylamore (approximately 34 miles downstream of the confluence of the White and North Fork Rivers), Greers Ferry (tailwater), and Pangburn (approximately 22 miles downstream of Greers Ferry Dam).

(d) **Low Dissolved Oxygen Impacts to Flood Control Operations.** There were no impacts to flood control operations during FY 00 due to low dissolved oxygen.

(3) **Deviations.**

(a) **White River.** There were two deviations to the water control plan at the White River multipurpose projects in FY 00. A change in the seasonal pool, to elevation 462.5 from 01 April to 30 September, was made at Greers Ferry as an operational adjustment to offset hydropower losses associated with water supply reallocations. Also, changes in the seasonal pools at Beaver, to elevation 1122.5, at Norfolk, to elevation 557.5 and at Greers Ferry, to elevation 462.5, through 30 September or until the conservation pools at Table Rock and Bull Shoals were 100% full, whichever occurred first, were made as part of a regional effort to provide temporary reserve for hydropower production..

(b) **Clearwater.** There were two deviations to the water control plan at Clearwater Lake during FY 00. The first raised the seasonal pool elevation from 498.0 to

500.0 to provide safe boating conditions near two marinas. Over the past several years there had been considerable sediment buildup adjacent to these marinas. The second deviation was to implement an alternate Water Control Plan that the Clearwater Lake/Black River committee recommended.

c. Arkansas River System.

(1) **General.** Rainfall this water year on the Arkansas River Basin in Arkansas was again below the yearly averages of 40 to 45 inches. However, rainfall at all projects was below average this year. Rainfall ranged from 15 to 32 percent below average. The overall average being minus 25 percent. Basically, rainfall amounts were similar at the Lock and Dams, varying from 29.8 to 36.6 inches. On a monthly basis, the only months above average were December and June at 29 percent and 55 percent above average, from Little Rock to Van Buren. From Pine Bluff to Pendleton, rainfall was above average during May and June only, averaging almost 40 percent above normal. Flow at Van Buren was about 75 percent of the yearly average and ranked 21st out of the 31 years of record. At Little Rock flow was about 70 percent of average. Even so, there were six flood events occurring in December, February, and March through July in which economic benefits were run. Flows were above 100,000 cfs at Van Buren (just upstream from James W. Trimble) for 21 days during the year. Flows were above 100,000 cfs at Murray L&D (just upstream from Little Rock) for 30 days. The year's peak flow at Van Buren was about 164,500 cfs on 22 June and at Little Rock the peak flow was about 186,500 cfs and occurred on 24 June. There were no lock outages due to high water.

(2) Flood Control Operations.

(a) **Blue Mountain Lake.** Blue Mountain Lake experienced two rises during FY00. The largest rise occurred in December 1999 with the pool cresting at 11.5 feet above the seasonal pool and utilizing 19% of the flood control storage. The basin annual rainfall was 7.5 inches below the historical average. The month of June 2000 was the wettest month of the year with rainfall exceeding the monthly average by 3.8 inches.

(b) **Nimrod Lake.** Nimrod Lake experienced four rises during FY00. The largest rise occurred in December 1999 with the pool cresting at 13.1 feet above the seasonal pool and utilizing 25% of the flood control storage. The Nimrod basin annual rainfall was 7.1 inches below the historical average for FY00. December 2000 was the wettest month of the year with rainfall exceeding the monthly average by 3.7 inches.

(3)Deviations.

- (a) Mainstem.** There was one deviation to the water control plan of the Arkansas River in SWL during FY99 that was terminated in FY00 on 18 October 1999. There was one deviation that went into effect in FY00 at the same project. After the last high water event in July, numerous locations required dredging in order to provide the system's nine-foot navigation channel whenever there was little or no flow. At the Murray Lock and Dam project the operating pool limits were raised from elevation 248.8 - 249.3 to elevation 249.5 - 250.0 feet, NGVD, on 10 August 2000. This deviation was still in place at the end of FY00.
- (b) Blue Mountain Lake.** There were no deviations to the water control plan for Blue Mountain during FY 00.
- (c) Nimrod Lake.** There was one deviation to the water control plan for Nimrod Lake during FY00. Early in the year, the lake was held at elevation 332 (10.0 feet below seasonal pool) to facilitate the construction, placement and anchoring of fish structures in the lake. For the remainder of the year, the lake was regulated to elevation 342 (up to 3.0 feet below seasonal pool) to help establish vegetation which was planted between elevation 342 and 345 to improve fish and wildlife habitat and erosion control.

d. Little River System.

- (1) General.** Rainfall over the Little River Basin for FY 2000 was approximately ten inches below the annual average. November and July were the driest months with both being 3.4 inches below normal. June was the wettest month with the monthly average being 4.8 inches above average.
- (2) Flood Control Operations.** In FY2000, there were several minor rises using less than 10% of flood storage. There were two rises that exceeded 10% flood storage. Dierks Lake experienced the greatest rise cresting with 30% flood control used. The year ended with a typically dry fourth quarter in which all of the Tri-Lakes pools declined below conservation level.
- (3) Deviations.** There were six deviations in the Little River basin during FY2000. The first deviation provided releases for two separate canoe classes below Dierks Dam in October 1999. Also in October there was a request from the Arkansas Game and Fish Commission to lower Dierks Lake from elevation 526.0 to 519.0 to assist them in repairing, replacing, and constructing fish shelters. In December 1999 there

was another deviation to accumulate runoff in the flood pool at Gillham to facilitate needed stilling basin repairs. The next two deviations were requested by the AG&FC to limit the releases at Dierks in May and DeQueen in June to conduct children's fishing events in the stilling basins. During those deviations, we made zero release from the projects during fish stocking and minimum release for the remaining time over a two-day period. Each deviation was successfully executed and provided the intended benefit to the customer.

e. Studies, Reports, and Investigations Related to Water Control are Summarized as Follows.

- (1) Arkansas River Levees, AR.** The 42 levees along the Arkansas River in Arkansas protect 753,180 acres of mainly residential and farmland and are estimated to have prevented more than one-half billion dollars in damages. Some levees are not adequately sized, and some have deteriorated drainage structures or failing side slopes. Many are past their 50-year economic life. Rehabilitation of 13 levee units in Arkansas would be economically justified. Congress added funds in FY 2001 to continue pre-construction, engineering and design (PED). The plans and specifications for repairing the North Little Rock to Gillett Above Plum Bayou system, including the Baucum, Old River, and Plum Bayou levees, were completed in FY 1997; the proposed repairs for this system include culvert replacements and slide repairs, and the estimated cost is \$2.1 million. The additional funds received in FY 2001 will be used to reevaluate the 1996 economic analysis, to inspect some of the levee systems, and to initiate plans and specifications for repair of one levee system.
- (2) Arkansas/White Cutoff Containment Structure.** The Arkansas/White Cutoff Containment Structure is located between the Arkansas and White River in Arkansas County, Arkansas. The structure is comprised of approximately 17,300 feet of containment levee, a controlled overflow section, and one headcut structure which is known as the Melinda Headcut Structure. A natural cutoff has historically existed between the lower White and Arkansas Rivers, but was closed during the development of the McClellan-Kerr Arkansas River Navigation System. As the result of numerous hydraulic events since, a new cutoff is developing which could ultimately threaten navigation. The Melinda Headcut Structure has been repeatedly overtopped and is in imminent danger of failure. A construction contract to stabilize the structure was awarded on 3 May 00. The Corps is continuing a study that was initiated in FY 1998 to determine viable alternatives to the comprehensive cutoff problem in the overall area. The study is presently scheduled for completion in March 2002 which would allow a FY04 construction start. Very preliminary estimates of the construction cost are in the \$30 to \$50 million dollar range.

(3) Arkansas River Navigation Study. The study area includes the entire McClellan-Kerr Arkansas River Navigation System in Arkansas and Oklahoma. The feasibility study will be conducted in two phases. Phase I will investigate flow management to improve the overall economic benefits for navigation on the system by reducing the impacts of high flows from the upper reaches of the Arkansas River. Phase II will investigate deepening the navigation system over the entire length and providing passing lanes on the Verdigris River in Oklahoma. In FY01, \$753,000 has been appropriated. The first phase of the study will cost about \$1.25 million more to complete, and it will be the most comprehensive study of McClellan-Kerr Arkansas River Navigation System operations since the system was built. Little Rock and Tulsa districts are working together to examine possible alternatives for operating the upstream lakes, as well as possible structural solutions. To date, five public workshops have been conducted to gather information and concerns along the waterway. This information is being incorporated into the study analysis. There will be several other opportunities for public involvement as the study unfolds. EIS scoping meetings were conducted in February 2001. The estimated cost of phase I of the study is \$3,000,000 and phase II is \$2,700,000. With adequate funding, phase I is scheduled for completion in 2003 and phase II is scheduled for completion in 2005.

(4) White River Regulation Simulation Model Runs. Seven period-of-record runs were made to analyze the effects of the Table Rock Spillway Gate Rehabilitation Project. The first three runs were concerned with evaluating the effect of lowering the "Top of Power Pool" elevation to provide a more favorable working environment for the project and to increase the volume of flood storage. The model was run with the Table Rock top of power pool elevation set at Elevations (EL) 910, 905, and 900 respectively (normal top of Power Pool is EL 915). The next four runs were concerned with modeling the effect of only having seven out of ten spillway gates available for flood operations. The free flow rating and induced surcharge curves were modified to reflect 7 working gates out of ten. The top of flood pool was lowered by one-foot increments from EL 931 to EL 929. Flood releases were modeled such that the required release of 20,000 cfs was triggered at pool elevations above EL 919, 918 and top of power pool. The 20,000-cfs release is normally required when the pool rises above EL 920. One period of record run was made at the request of Planning Division to study Clearwater Lake. The regulating stage at Poplar Bluff was set to 11.5 feet from 01 Dec to 14 May and 6.0 feet from 15 May to 30 November with no caveats regarding Clearwater flood storage in use. Planning was provided with a pool elevation hydrograph based on the SUPER run. One period of record run was made to model the Regional Deviation Plan in response to 2000 drought conditions. The tops of Conservation/Power pools were changed as follows. Beaver was raised from EL 1121.43 to EL 1122.5; Norfork

was raised from EL 554.0 to EL 557.5; Greers Ferry was raised from EL 461.26 to EL 462.5.

- (5) **Non-Federal Hydropower Development.** In FY 2000, the hydroelectric powerplants at James W. Trimble Lock and Dam (No. 13), Arthur V. Ormond Lock and Dam (No. 9), and Murray Lock and Dam (No. 7) continued to operate. The Trimble power plant contains three 10 megawatt (MW) hydroelectric generating units, Ormond contains three 11.2 MW units, and Murray contains two 19.5 MW units. Construction on the hydroelectric power plant at Wilbur D. Mills Dam (No. 2) which began in August 1994, was completed in FY2000 and the plant went into full operation with it's three 36 MW units. A license has been issued for the River Mountain pumped-storage project that will utilize Dardanelle Reservoir for the afterbay. Construction has not begun. SWL continues to be responsible for reviewing preliminary permits and applications filed with the Federal Energy Regulatory Commission (FERC) for development of non-federal hydropower at Corps projects or non-Corps projects within the limits of SWL to ascertain potential impacts on Corps responsibilities. The Corps also has the responsibility to review all designs, plans, and specifications for features that affect the integrity or operation of existing Federal projects. As a result of SWL review and comment on an application for License renewal, FERC has issued a preliminary recommendation for amending the license for the Empire District Electric Company's Ozark Beach Project. The amendment will reduce periodic flooding upstream of Ozark Beach and enable SWL to more readily evacuate floodwater from the upstream Table Rock Project.
- (6) **North Little Rock, Arkansas (Dark Hollow) Flood Control Project.** The proposed project is a flood control channel project including replacement of the existing tunnel under Redwood Street. Section 576 of the Water Resources Development Act of 1999 directed the Corps to review the plans and determine if the project is economically justified, technically sound, and environmentally acceptable and if so, construct the project. The design cost-sharing agreement was executed with the City of North Little Rock on 30 May 2000. The Limited Reevaluation Study was initiated 26 June 2000. Upon completion of the Limited Reevaluation Study and pending report approval, plans and specifications for the project will be initiated. The FY 2001 appropriations included \$500,000 to complete the Limited Reevaluation Study and initiate plans and specifications.
- (7) **White River Minimum Flow Project.** The Water Resources Development Act of 1999 (WRDA 99), Section 374, and WRDA 00, Section 304, modifies the operation of the White River lakes to include specific amounts of project storage for the tail water trout fisheries. Before this, water management decisions affecting lake levels and downstream flows were based primarily on flood control and hydropower needs. The act directs the Corps to reallocate the following amounts of storage:

Beaver Lake, 1.5 feet; Table Rock Lake, 2 feet; Bull Shoals Lake, 5 feet; Norfolk Lake, 3.5 feet; and Greers Ferry Lake, 3 feet. The stored water will be used to make releases during periods when hydropower is not being generated. These minimum flows are intended to sustain the trout fishery. These changes cannot be carried out until this study determines that they are technically sound, environmentally acceptable, and economically justified. The Corps reprogrammed \$100,000 of operations and maintenance funding to initiate the study effort in FY00. The Corps used these funds to conduct public involvement activities including several public workshops and agency meetings to notify interested parties of the proposed study and receive their comments. A status report of activities to date was completed July 14, 2000. FY01 appropriations included a Congressional Add of \$850,000 to continue the study. We are continuing the reallocation study effort including an Environmental Impact Study of the proposed plans. The study is scheduled for completion in July 2002 and a draft report will be available at that time.

- (8) **Rockaway Beach at Lake Taneycomo Aquatic Habitat Restoration (Section 206).** The project area is on Lake Taneycomo within the city limits of Rockaway Beach, Missouri, 7 miles northeast of Branson, Missouri in Taney County. The proposed modifications include excavation and rehabilitation of the existing causeway and area between the shoreline and the city fishing island with replacement of the causeway to restore accessibility and stream flow, and the placement of aerators in the water to increase the dissolved oxygen levels. This plan will increase fishery habitat and water quality by increasing dissolved oxygen levels, improving water clarity and reducing the accumulation of sediment and algae growth in the area surrounding Rockaway Beach. The Planning, Design and Analysis phase has been initiated and plans and specs are to be completed in February 2001. The City of Rockaway Beach is the non-Federal cost-sharing sponsor. The project is currently estimated at \$450,000.

f. Construction related to water control projects are as follows.

- (1) **Arkansas River Additional Land Acquisition, AR.** Additional flowage easements along the 300-mile Arkansas portion of the McClellan-Kerr Arkansas River Navigation System are being purchased to bring the operation of the navigation system into compliance with the legal obligations under the 5th Amendment to the Constitution of the United States. From 1970 through 1985, Little Rock District received claims totaling about \$15 million because operation of the navigation system is allowing water to flow across private property that the government does not have the right to flood. This is equivalent to a “taking” and is contrary to the 5th Amendment. The original acquisition of easements in the 1960’s was based on a flat pool concept as opposed to an envelope (sloping surface) curve. The Arkansas River Land Impact Study confirmed that more easements were needed. Since then,

the district has acquired easements for about 624 tracts of land and has expended more than \$23 million. Records indicate the number of ownerships will increase to 2,372 because of subdivision of land. Total cost of the project is estimated at \$64.5 million. Scheduled completion is in FY10.

- (2) **Montgomery Point Lock and Dam, AR.** Montgomery Point Lock and Dam is being constructed one-half mile upstream from the Mississippi River in the White River Entrance Channel, which is the first reach of the McClellan-Kerr Arkansas River Navigation System. Construction of the lock and dam will allow control of the water level in the entrance channel to maintain the reliability of the navigation system during periods of low water. This funding year's appropriation was \$40 million. Projected funding needs are about \$61.5 million, which will require the Corps to reprogram additional funds to keep the project on track. The project will require continued Congressional adds to be completed as scheduled. The Corps paid C&L Electric Cooperative to construct a power line to the lock and dam site. The power line was energized in May 1999. The Corps and C&L have been unable to negotiate a final rate for electricity. In May this year, the Corps requested a hearing before the Arkansas Public Service Commission. The commission has not set a hearing date yet. Meantime, the Corps is paying a higher rate than it feels is appropriate. The cofferdam is completed. Lock concrete pouring and H pile driving began in July 2000. Concrete placement will continue through January 2002.

- (3) **Table Rock Dam Safety Assurance Project.** Table Rock Dam, located about eight miles upstream from Branson, has a hydrologic deficiency and can safely pass only 65% of the Probable Maximum Flood (PMF). Studies indicate that the PMF would overtop the dam by more than five feet and would breach the earthen embankment portion of the dam, causing catastrophic losses in downstream areas including Branson. The solution is to build an auxiliary gated spillway. The project is being constructed in three phases to match projected funding. The Phase I contract included excavation for the spillway structure and downstream exit channel. The Phase I contract was awarded in March 1999 and construction was completed in September 2000. The Phase II contract was awarded in June 2000 to Granite Construction Company of Watsonville, CA for \$43.4M. The Phase II contract includes construction of the major structural elements of the spillway (gates, dam, bridge, etc...). It also includes the rerouting of Highway 165 across the spillway structure and completion of the entrance and exit channels. The Moonshine Beach recreation area will be relocated since the spillway entrance channel will destroy the existing beach. Work for the construction of the new beach will be included in a Phase III contract. The Phase III contract is expected awarded in June 2001 and construction completed in approximately 24 months. This will allow the new beach to be available when the old beach is turned over for construction of the entrance

channel in the Phase II contract. Overall completion of all phases of the project is slated for mid 2004 at a total estimated cost of \$60.2 million.

- (4) **Beaver Tailwater Restoration, Beaver Lake, AR, Section 1135.** The project area is located immediately below Beaver Dam along the White River in Carroll County, Arkansas. The proposed modification consists of restoring 2 miles of channel and banks of the upper White River damaged by high flows from releases in Beaver Lake. The modification consists of constructing and placing in the river channel 60 in-stream habitat structures, three log crib retaining walls, and one stone weir deflection structure. The estimated cost to implement the project is \$120,000 and would be cost-shared 75% Federal and 25% with the local sponsor, the Arkansas Game & Fish Commission (AGFC), or \$90,000 and \$30,000, respectively. AGFC will provide their contribution of \$11,800 in cash and \$18,200 in work-in-kind services to include providing boulders and logs for 60 in-stream habitat structures, cedar trees and logs for three retaining walls, and boulders for one stone weir. Contract award was November 14, 2000. Construction began 12 December, and is scheduled to be completed March 2001.
- (5) **Nimrod Fisheries Restoration.** A water level plan supplemented by plantings and installation of fish shelters, would promote the propagation and growth of crappie, black bass and centrarchids. A purchase order went out in February for the shoreline vegetation. Construction was completed March 13, 2000. The project was turned over to the local sponsor March 28, 2000.
- (6) **Collins Creek, Section 1135, Ecosystem Restoration Project.** Local trout enthusiasts through the Arkansas Game and Fish Commission have requested Corps assistance to establish trout spawning habitat in Collins Creek. The site is located on Government property downstream of Greers Ferry Dam, in proximity to the JFK park. As proposed, the project would use 1.5 cfs of water from Greers Ferry Lake to establish and maintain flows in 3,000 feet of Collins Creek. Project features include a cold water pipeline from Greers Ferry Dam and rock and log weirs to form pools for the trout. The non-Federal sponsor, the Arkansas Game and Fish Commission, furnished a letter of intent on 22 February 1999. We expect construction project approval in February 2001.
- (7) **White River, Batesville Water Tower, AR (Section 14, FCA 1946).** The Energy and Water Development Appropriations Bill, 1997 included \$500,000 to initiate and construct this bank stabilization project. The city of Batesville accepted the completed project for operation and maintenance in August 2000. The project cost was \$513,100 of which \$179,585 was provided by the city as its cash contribution.

- (8) Pine Bluff Wetland Restoration, Section 1135.** The Pine Bluff Wetland Restoration Project will be located in Pine Bluff Regional Park on about 130 acres designated for the future Pine Bluff Nature Center. To the east, the proposed nature center will border Lake Langhofer. The lake is an old bendway of the Arkansas River, is 8 miles long and covers about 2,000 acres. The proposed modification consists of constructing a 2-acre wetland, creating three food plot areas, and reforesting about 9 acres. Total project cost is estimated at \$366,600. The local sponsor's share, the city of Pine Bluff, is 25 percent, or about \$91,600. The federal share is \$275,000. The current plan submitted to SWD in November 2000 was not approved (Jan. 01) because of the high cost per acre of the project. SWL is in the process of discussing the high cost issue with city officials in Pine Bluff to determine how they want to proceed with the project. Either the cost will need to be reduced, or other opportunities for restoration will be pursued.
- (9) Slack Water Harbor, Russellville, Ar, Section 107.** The recommended plan in the Detailed Project Report consists of a slack water harbor located on the left descending bank of the Arkansas River at navigation mile 202.6 downstream of Dardanelle Dam in Pope County. This plan was the NED plan. The total cost to implement the slack water harbor was estimated at \$3,883,000 and the benefit-to-cost ratio was 1.5 to 1. The total federal share is estimated at \$3,164,000 and the total non-federal share is estimated at \$719,000. The harbor will enhance the city's inter-modal transportation network consisting of an airport, interstate highway, railroad, pipeline, and waterway. This is the plan the city requested. The Detailed Project Report and Environmental Assessment was submitted to SWD on January 31, 2000. SWD did not approve the report stating that it was not in compliance with current policy regarding fast land cuts outside the navigation servitude. Therefore, the feasibility study was terminated on May 5, 2000. In January 01, SWL was directed to resolve the issues in the feasibility report. Accordingly, \$30,000 of the \$219,000 in funds received this year is being used to revise the report per SWD comments and will be resubmitted in the spring of 2001.
- (10) Black River, Highway 69, Section 14, Emergency Bank Stabilization.** Construction was completed on this \$277,230 project in August 2000. The sponsor, the Arkansas Highway and Transportation Department, accepted the project December 2000. The sponsor's share of cost was \$97,030.
- (11) White River, Batesville, Section 205, Flood Control Project.** This \$4,000,000 levee/floodwall project is being modified to correct bank and culvert erosion. Construction on the erosion correction is scheduled to start in March 2001 to be completed by September 2001. This portion of the project is estimated to cost \$620,000 with a 25 percent cost share provided by the city of Batesville, Arkansas, the sponsor.

g. Other significant items relating to water management activities are as follows.

- (1) Proposed Revisions to Water Control Plan, Clearwater Lake.** The environmental assessment was completed and sent to the appropriate state and federal agencies for coordination and comment. The Arkansas Game & Fish Commission furnished supplemental data that indicates the proposed plan may have significant impacts to bottomland hardwoods, and the agency requested we return to the originally authorized water control plan. We need to conduct some tests to validate those data. However, extended drought conditions in the basin in 2000 prevented successful testing. We will conduct tests as soon as possible after normal rainfall patterns return. If AGFC's concerns are found to be valid, the decision will have to be made whether to proceed with an Environmental Impact Statement for the proposed plan, evaluate additional measures in combination with the proposed plan, or investigate additional alternatives.
- (2) Water Control Data System (WCDS).** A new Windows NT workstation was purchased to serve as the backup for the data collection machine that was acquired the previous year. Also a Windows NT machine that will serve as the Web server for the SWL Water Control Data System was purchased, along with the software for developing the Web pages. With the implementation of the NT Workstations for data collection, all SCO machines, except for the DOMSAT Receive Station, have been taken out of service. The automatic Network Backup Utility on the DRS was implemented for use with SWT and Jacksonville Districts. Two new laptops were purchased for Reservoir Control, and have been configured for use either locally or at a remote site should remote operations be necessary. A modification of the program "laklist" called "gaglist" was developed to give a quick look at the most recent stage data for regulating stations, and other stations of interest and importance. Documentation for user programs was updated, and made available for users in a documentation directory on swl63. Also all system administration documentation was brought up-to-date and given to appropriate Reservoir Control personnel.
- (3) Advanced Weather Interactive Processing System (AWIPS) (formerly AFOS).** In April 2000, the AFOS data feed from the Tulsa RFC was discontinued without warning from the RFC. SWL implemented software developed at SWT for receiving and storing AWIPS data from the NOAAPort system. The necessary processes for loading and using the SHEF encoded data for the ViewRain program have been implemented, and the new ViewAFOS software has been installed on all Reservoir Control personnel workstations. Both text and graphics products can be viewed by reservoir control personnel with the ViewAFOS program on their workstations. Because of problems with the CEAP network, some of the AWIPS

data is being lost in the transmission from SWT to SWL, and IMO and Network Operations personnel continue to work to resolve the problem.

- (4) **Data Collection Platform (DCP) Status.** A total of 151 DCP stations are currently being received to assist in operating SWL projects. Fifty-seven are in the Arkansas River basin, 30 in the Red River basin, and 64 in the White River basin. Of the 153 DCP stations, 115 are operated under SWL, and 36 DCP stations are used in conjunction with other Corps districts.
- (5) **Water Control Manual – Nimrod Lake.** An A/E task order was negotiated for \$78,350 with a notice to proceed issued on 13 March 2000. The order was 60 percent complete at the end of the FY. The scheduled completion date is 12 March 2001.
- (6) **Water Control Manual – Blue Mountain Lake.** An A/E task order was negotiated for \$60,400 with a notice to proceed issued on 24 February 2000. The order was 85 percent complete at the end of the FY. The scheduled completion date is 11 February 2001.

5. HYDROPOWER PRODUCTION.

The annual net hydropower production at LRD plants in total GWH by fiscal year is shown in table 19.

Table 19
Little Rock District
Hydropower Production By Project
For Fiscal Years 1996 Through 2000
(GWH)

| Project | FY 96 | FY 97 | FY 98 | FY 99 | FY00 |
|----------------|--------------|--------------|--------------|--------------|-------------|
| Beaver | 98.6 | 170.0 | 158.9 | 147.4 | 90.3 |
| Table Rock | 254.2 | 467.9 | 580.6 | 506.8 | 232.3 |
| Bull Shoals | 368.5 | 681.3 | 846.9 | 687.8 | 301.5 |
| Norfork | 131.4 | 192.9 | 182.8 | 149.4 | 66.3 |
| Greers Ferry | 68.9 | 218.7 | 156.3 | 112.1 | 80.4 |
| Ozark | 245.1 | 319.8 | 330.5 | 214.1 | 277.2 |

Table 19
Little Rock District
Hydropower Production By Project
For Fiscal Years 1996 Through 2000
(GWH)

| Project | FY 96 | FY 97 | FY 98 | FY 99 | FY00 |
|----------------|----------------|----------------|----------------|---------------|---------------|
| Dardanelle | 396.6 | 499.8 | 499.7 | 364.7 | 480.3 |
| TOTALS | 1,563.3 | 2,550.4 | 2,755.7 | 2182.4 | 1528.3 |

6. NAVIGATION ACTIVITIES. Projections indicate that about 12.0 million tons of commerce will be moved on the McClellan-Kerr Arkansas River Navigation System in CY00, see Table 20. Commodities moved include iron and steel; chemicals and chemical fertilizers; petroleum products; coal; sand and gravel; rock; soybeans; wheat and other grains; and miscellaneous commodities.

Table 20
Little Rock District
Waterborne Traffic on
McClellan-Kerr Arkansas River Navigation System
(Total Tonnage Little Rock District)

| | FY1999* (Tons) | FY 2000 ** (Tons) |
|---------------|----------------------------|-----------------------------|
| Inbound | 3,800,000 | 3,443,806 |
| Outbound | 5,600,000 | 5,281,292 |
| Internal | 3,000,000 | 2,782,579 |
| Through | 600,000 | 401,770 |
| Totals | 13,000,000 | 11,909,447 |

*Unofficial figures

**Projected figures

7. WATER SUPPLY STORAGE.

Water supply allocations, contracts, and usage for FY 99 and FY 00 are shown, by project, in table 21.

Table 21
Little Rock District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(In Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|-----------------|-----------------------------------|------------------------------------|--------------------------------------|-----------------|---------|
| | | | | (FY 99) | (FY 00) |
| Beaver | 108,000 | 129,151 | 4 | 56,496 | 62,691 |
| Table Rock | 0.00 | 95 | 1 | 34 | 35 |
| Bull Shoals | 0.00 | 880 | 1 | 887 | 920 |
| Norfork | 0.00 | 2,400 | 1 | 4,282 | 4,284 |
| Greers Ferry | 0.00 | 10,839 | **8 | 6,867 | 6,592 |
| Blue Mountain | 0.00 | 1,550 | 1 | N/A | N/A |
| Nimrod | 0.00 | 143 | 2 | 98 | 103 |
| Dequeen | 17,900 | 17,900 ¹ | 1 | 0 | 276 |
| Gillham | 20,600 | 20,600 | 1 | 1,354 | 1,401 |
| Dierks | 10,100 | 10,100 | 1 | 384 | 390 |
| Millwood | 150,000 | 150,000 | 1 | 74,923 | 80,444 |

** City of Heber Springs is authorized to use 0.835 million gallons per day of Greers Ferry Lake for water supply due to relocation of its water supply intake from its original site.

¹Only 610 acre-feet of the authorized water supply storage is under agreement .

8. LAKE ATTENDANCE.

Annual lake attendance at all LRD projects is shown in table 22.

Table 22
Little Rock District
Annual Lake Attendance
For Fiscal Years 1995 Through 1999
(1000's Visitor Hours)

| | 1996 | 1997 | 1998 | 1999 | 2000 |
|--------------|----------------|----------------|----------------|----------------|----------------|
| Total | 183,507 | 157,471 | 158,860 | 152,368 | 149,868 |

9. COOPERATIVE PROGRAMS.

- a. **National Weather Service.** Approximately 204 rainfall and/or river stage reporting stations were operated by the National Weather Service in or near the Little Rock District. Of these, 76 stations are in the Little Rock District Corps of Engineers/National Weather Service Cooperative FC-16 Network. The remaining stations are either operated within the National Weather Service networks or the other cooperative networks of the surrounding Corps districts. Reports from these stations are used in forecasting stream flows for flood warnings and operation of reservoir projects. The FY2000 total operational and maintenance cost for the NWS/COE cooperation program was \$50,185. The FY2001 operation and maintenance cost of the cooperative program is projected to be approximately \$45,802.
- b. **U.S. Geological Survey.** The stream gaging data required by the District are collected under a cooperative agreement with the USGS. During the fiscal year 108 DCP stations were operated in the Little Rock District. Of these, 74 were operated cooperatively and the Corps operated 34. The FY2000 total cost for collection of stream flow was \$682,630 of which \$566,630 was transferred to the USGS. The FY2001 cooperative program cost is estimated at \$669,040 of which \$553,040 will be transferred to USGS.

10. SEDIMENT ACTIVITIES.

- a. **Summary of Activities** (a) Arkansas River. The within-channel portions of the 247 sediment ranges on the mainstem of the Arkansas River are resurveyed periodically. In FY 2000 within-channel portions of sediment ranges were obtained in Pools 7, 8, 9, Dardanelle and Ozark for a total of 143 ranges. An analysis of past surveys of both channel and overbank portions is underway to determine future Arkansas River sediment range survey needs and to determine a realistic schedule for future survey acquisition. (b) Lakes. No sediment ranges were obtained during FY 2000 for the 12 SWL lakes. An analysis of sediment ranges in all SWL lakes, including Dardanelle and Ozark lakes on the Arkansas River, is being made to determine the extent of sedimentation and to determine a realistic schedule for future survey acquisition. This analysis will result in a study report with recommendations and is scheduled to be completed in the last quarter of FY2001.

- b. Channel Maintenance.** Dredging of approximately 1.3 million cubic yards was required in FY00. A contract dredge accomplished the dredging. Areas that required dredging included Pools 2, 3, 4, 5, 9, Lake Dardanelle, and the White River Entrance Channel. Government plant clammed approximately 0.26 million cubic yards in Pools 1, 2, 3, 4, 6, 7, 8, 9, 13, Lake Dardanelle, and the White River Entrance Channel. Navigable depths were maintained following periods of high flows on the Arkansas River and during periods of low stages on the White River Entrance Channel/Mississippi River. Numerous Safety Advisories and Safety Zones were issued in FY00 due to low water conditions on the White River Entrance Channel.

11. FY 00 PROJECT VISITATION BY WATER MANAGEMENT PERSONNEL.

- a. October 1999 through September 2000.** SWL FERC Coordinator visited both Wilbur D. Mills Dam and Lock No. 2 eight times in coordinating the construction of facilities associated with the non-federal hydropower project at Wilbur D. Mills dam.
- b.** During FY 2000 the Arkansas River Engineer attended public workshops on the Arkansas River Navigation Study in Muskogee, Oklahoma, Fort Smith, Russellville, and Pine Bluff, Arkansas.
- c. November 1999.** RCB real-time regulator and alternate visited Dierks Lake to observe the stilling basin dewatering and inspection.
- d. May 2000.** Arkansas System Engineer attended annual Navigation Conference in Tulsa, Oklahoma.
- e. June 2000.** White River System Engineer attended a monthly meeting of the Waterworks and Water Environment Association, Northwest District. A presentation on reservoir management, water supply contracts/accounting, and drought issues was given. The Table Rock project was also visited, including the project office, visitor center, powerhouse, liquid oxygen storage area, tailrace, dissolved oxygen gauges and downstream areas subject to flooding.
- f. July 2000.** White River System Engineer attended a meeting of the White River Dissolved Oxygen Committee. A presentation on dial-up access to the WCDS and current dissolved oxygen conditions was given. The Bull Shoals project was visited, including the powerhouse. The Norfork project was also visited, including the downstream area.
- g. July 2000.** White River System Engineer visited the Beaver project, including the project office, powerhouse, spillway, tailrace, dissolved oxygen gauge and a concessionaire.

- h. August 2000.** Water Control Data System manager visited the Bull Shoals powerhouse to coordinate with the power plant superintendent and electrician for WCDS access to data on the powerhouse SCADA system.

12. WATER CONTROL STAFFING.

Table 23
Little Rock District
Water Control Staff

| Name | Org. Code | Position | Phone #. | Grade |
|------------------|------------------|----------------------|-----------------|--------------|
| Mike Hendricks | CESWL-OP-R | Chief, Water Control | 501-324-6237 | GS-13 |
| John Kielczewski | CESWL-OP-R | Reservoir Operations | 501-324-6238 | GS-12 |
| Glen Raible | CESWL-OP-R | Reservoir Operations | 501-324-6239 | GS-12 |
| Mike Black | CESWL-OP-R | Reservoir Operations | 501-324-6238 | GS-12 |
| Gordon Bartelt | CESWL-OP-R | Reservoir Operations | 501-324-6236 | GS-12 |
| Jan Jones | CESWL-OP-R | Computer Processing | 501-324-6235 | GS-12 |
| Chris Reicks | CESWL-OP-R | Computer Processing | 501-324-6239 | GS-12 |
| Jim Cia | CESWL-OP-R | Reservoir Operations | 501-324-6236 | GS-11 |
| Ken Rollins | CESWL-OP-R | Reservoir Operations | 501-324-6237 | GS-11 |
| Darrel Campbell | CESWL-OP-R | DCP Maintenance | 501-324-5656 | GS-08 |
| Tim Crownover | CESWL-OP-R | DCP Maintenance | 501-324-5656 | GS-07 |

SECTION IX

TULSA DISTRICT WATER CONTROL ACTIVITIES

SECTION IX – TULSA DISTRICT WATER CONTROL ACTIVITIES

1. ANNUAL FLOOD DAMAGES PREVENTED PER RIVER BASIN.

The annual flood damages prevented by river basin during FY00 in the Tulsa District are shown in table 24.

Table 24
Tulsa District
Annual Flood Damages Prevented Through FY 00
(Current Dollars)
Not Adjusted For Inflation

| PROJECT | FY 00 DAMAGES PREVENTED | CUMULATIVE BENEFITS THROUGH FY 00 |
|----------------------|--|--|
| Arkansas River Basin | | |
| Arcadia | \$801,890 | \$5,998,500 |
| Big Hill | \$61,890 | \$28,459,100 |
| Birch | \$6,834,890 | \$58,359,600 |
| Canton | \$338,080 | \$13,329,700 |
| Cheney | \$648,170 | \$22,443,400 |
| Copan | \$6,521,910 | \$348,604,800 |
| Council Grove | \$17,560 | \$70,459.00 |
| El Dorado | \$9,278,350 | \$110,453,900 |
| Elk City | \$1,841,730 | \$151,008,400 |
| Eufaula | \$1,963,600 | \$142,504,500 |
| Fall River | \$1,990,710 | \$124,619,400 |
| Ft Gibson | \$1,628,950 | \$89,305,300 |
| Fort Supply | \$61,320 | \$3,982,700 |
| Great Salt Plains | \$3,905,480 | \$67,804,800 |
| Heyburn | \$2,675,840 | \$23,497,700 |
| Hulah | \$7,235,510 | \$543,223,500 |
| Iola Levee | \$0 | \$15,924,000 |
| John Redmond | \$97,250 | \$281,638,000 |
| Jenks Levee | \$0 | \$2,618,000 |
| Kaw | \$1,686,920 | \$382,807,000 |
| Keystone | \$2,234,730 | \$559,623,400 |

Table 24
Tulsa District
Annual Flood Damages Prevented Through FY 00
(Current Dollars)
Not Adjusted For Inflation

| PROJECT | FY 00 DAMAGES PREVENTED | CUMULATIVE BENEFITS THROUGH FY 00 |
|------------------------|--|--|
| Marion | \$14,720 | \$141,285,200 |
| Markham Ferry (Hudson) | \$818,770 | \$28,952,800 |
| Oologah | \$15,134,320 | \$268,779,500 |
| Optima | \$0 | \$11,000 |
| Pensacola | \$1,401,400 | \$85,785,900 |
| Sanford | \$0 | \$163,000 |
| Skiatook | \$10,928,950 | \$176,931,700 |
| Tenkiller | \$3,397,160 | \$67,950,700 |
| Thunderbird(Norman) | \$661,750 | \$34,192,700 |
| Toronto | \$1,192,420 | \$131,170,500 |
| Tulsa/West Tulsa Levee | \$0 | \$278,917,000 |
| Wister | \$2,896,800 | \$163,113,600 |
| Basin Total | \$86,271,090 | \$4,423,918,300 |
| | | |
| Red River Basin | | |
| Altus | \$71,900 | \$10,762,000 |
| Arbuckle | \$0 | \$1,714,000 |
| Broken Bow | \$0 | \$19,819,000 |
| Denison | \$0 | \$174,371,000 |
| Fort Cobb | \$622,900 | \$5,173,000 |
| Foss | \$307,100 | \$6,994,000 |
| Hugo | \$0 | \$29,410,000 |
| Lake Kemp | \$0 | \$19,098,000 |
| Mountain Park | \$0 | \$1,198,000 |
| McGee Creek | \$0 | \$1,935,000 |
| Pat Mayse | \$100,300 | \$8,702,000 |
| Pine Creek | \$0 | 23,103,000 |
| Sardis | \$0 | \$23,374,000 |
| Waurika | \$0 | \$52,941,000 |
| Basin Total | \$1,102,200 | \$378,594,000 |

2. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS PROJECTS.

The annual flood damages prevented in each state served by the Tulsa District during FY00 are shown in table 25.

Table 25
Tulsa District
Annual Flood Damages Prevented In Each State
(Current Dollars)
Not Adjusted For Inflation

| STATE | FY 00 DAMAGES PREVENTED |
|--------------|-------------------------|
| Oklahoma | \$72,130,300 |
| | |
| Kansas | \$15,142,800 |
| | |
| Texas | \$100,000 |
| | |
| Total | \$87,373,100 |

- FY 00 damages prevented by reservoirs alone = \$ 87,373,100.

3. ANNUAL FLOOD DAMAGES, BY STATE, PREVENTED BY CORPS SUPPORTED EMERGENCY OPERATIONS.

During the course of fiscal year 2000 one rainfall event of note occurred in May 2000 causing flash flooding on several small Arkansas River tributaries located to the west and south of Tulsa, Oklahoma. This flash flooding primarily affected the communities of Sand Springs, and Sapulpa, Oklahoma, however USACE received no requests for assistance or flood fighting supplies during this event. This rainfall also affected the Mingo Creek watershed in Tulsa, Oklahoma, however the near complete Mingo Creek Local Flood Protection Project lived up to it's design capabilities and prevented the type of flash flooding that would have occurred from this event if the project had not been in place. During the balance of fiscal year 2000 no other significant flooding events took place requiring emergency operations or materials support. Much of the summer and early fall of 2000 was marked by drought conditions across most of the State of Oklahoma causing isolated wildfire concerns. These conditions and concerns were eased by rain received in late September and into October.

4. SPECIAL RESERVOIR OPERATIONS.

The FY 2000 rainfall over the Tulsa District ranged from 50% of normal for parts of Kansas to 110% of normal for northeastern Oklahoma. This resulted in only moderate flood operations for the spring of 2000 and moderate to severe drought conditions July through September 2000. Average flows on the Arkansas River at Robert S. Kerr L&D #15 were about 82% of normal. Average flows on the Red River were estimated to be about 40% of normal. Keystone Lake had its third lowest pool of record in September 2000.

- a. Y2K seasonal pools were approved during the fall and winter of 1999-2000 for the following lakes to provide additional hydropower generation capability if needed: Broken Bow (+3.0'), Texoma (+2.0'), Eufaula (+1.0'), Fort Gibson (+2.0'), Kaw (+4.0'), Keystone (+2.0'), Tenkiller (+3.0'), and Oologah (+4.0').
- b. Council Grove Lake was drawn down 4 feet below normal beginning 19 Jan 2000 through 1 May 2000 to facilitate riprap repairs.
- c. The Tulsa District participated in a regional drought initiative requested by Little Rock District. We were granted approval by SWD to operate 6 of our lakes above normal elevation from May through September 2000. The following lakes participated in this initiative: Eufaula (+1.0'), Tenkiller (+1.5'), Fort Gibson (+1.5'), Kaw (+4.0'), Keystone (+2.0'), and Oologah (+2.0'). This plan was designed to allow SWPA to generate more hydropower at the SWT lakes and less at the SWL White River lakes.
- d. Lake Hudson was operated 2 feet above normal from 19 June through 11 September 2000 to provide sufficient head to allow their pump-back operation to work in spite of a debris buildup in the tailrace area.
- e. A release of 12 cfs was made from the conservation storage at Sardis Lake from 22-25 September 2000. This release was requested by the U.S. Fish and Wildlife Service to help the Pocket-book mussels on the Kiamich River.

5. HYDROPOWER PRODUCTION.

Hydropower generation at Tulsa District projects for FY 1996 through FY 2000 is shown in table 26.

Table 26
Tulsa District
Hydropower Production By Project
For Fiscal Years 1996 Through 2000
(GWH)

| Project | 1996 | 1997 | 1998 | 1999 | 2000 |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Denison | 216.0 | 427.0 | 247.9 | 181.0 | 118.0 |
| Broken Bow | 42.0 | 230.0 | 160.8 | 204.7 | 92.6 |
| SUB-TOTAL | 258.0 | 657.0 | 408.7 | 385.7 | 210.6 |
| | | | | | |
| Keystone | 153.0 | 437.0 | 248.3 | 495.3 | 324.0 |
| Fort Gibson | 92.0 | 269.0 | 251.1 | 334.7 | 171.9 |
| Webbers Falls | 109.0 | 276.0 | 232.5 | 282.8 | 228.3 |
| Tenkiller Ferry | 81.0 | 162.0 | 137.0 | 159.6 | 96.0 |
| Eufaula | 197.0 | 376.0 | 346.2 | 416.8 | 216.9 |
| Robert S. Kerr | 317.0 | 786.0 | 635.9 | 857.1 | 570.1 |
| SUB-TOTAL | 949.0 | 2,306.0 | 1,851.0 | 2546.3 | 1,607.2 |
| | | | | | |
| TOTAL | 1,207.0 | 2,963.0 | 2,259.7 | 2,932.0 | 1,817.8 |

6. NAVIGATION ACTIVITIES.

Commercial movements in Oklahoma for FY 2000 increased (5.6%) over the tonnages moved in FY 99. Navigation conditions were very good in FY 2000, which resulted in it being the fifth highest tonnage year recorded on the Oklahoma segment of the Navigation System since the system became operational in 1970. Tonnage movements were steady throughout the FY and flow conditions for the most part were good for the entire FY with only a minimal amount of the high flows normally expected in the spring of the year.

Commodity shipments were strong and steady throughout the FY spurred on by the good national and regional economies and favorable navigation conditions. The FY 2000 commercial tonnage's (4,387,484 tons) were the second highest in the nineties on the Oklahoma segment of the Navigation System and was only exceeded by the FY 98 totals which was the second highest tonnage year ever recorded on the Oklahoma segment of the Navigation System.

Chemical fertilizer (1,563,112 ton), wheat (919,700 ton), and iron and steel (623,320 ton), again were the top three leading commodities shipped on the Oklahoma segment of the waterway. All the big three commodities posted an increase over their FY 99 totals with chemical fertilizer posting the largest increase at 15.6% and iron and steel and wheat increasing 4.7% and 2.1% respectively. Coke and coal (264,700 ton) remained in the 5th position for the second straight year, being exceeded again by petroleum products (281,086 ton) in the 4th position. Both experienced decreases from their FY 99 totals, with petroleum products dropping off 10.6%, while coke and coal shipments fell off 13.6%. The largest commodity shipment increase from FY 99 was soybean shipments, which increased an astronomical 111.4%, which pushed it ahead of farm products and other grains as the 6th leading commodity. Farm products and other grains decreased 12.1% during the FY. Chemical fertilizer was again the leading commodity shipped on the Oklahoma segment of the waterway.

Similar to the trend in tonnage on the Oklahoma segment of the navigation system, commercial movements on the entire McClellan-Kerr Arkansas River Navigation System also experienced a modest increase to 12,390,980 tons in FY 2000. This represents a 4% increase over tonnage moved in FY 99, which indicates it was another good year for tonnage movements on the entire system. The unofficial FY 2000 tonnage figures for the entire system are shown in the table below. The table also shows total tonnage comparisons for FY 99 and 2000 for both the Little Rock and Tulsa Districts.

Table 27
Tulsa District
Waterborne Traffic on
McClellan-Kerr Arkansas River Navigation System
(Total Tonnage Little Rock and Tulsa Districts)

| | FY 1999 * (Tons) | FY 2000 * (Tons) |
|---------------|-----------------------------------|-----------------------------------|
| Inbound | 3,471,339 | 3,434,082 |
| Outbound | 5,233,493 | 5,519,756 |
| Internal | 2,645,245 | 3,004,562 |
| Through | 574,740 | 432,580 |
| Totals | 11,924,817 | 12,390,980 |

* Unofficial figures

7. WATER SUPPLY STORAGE.

Water supply allocations, contracts, and usages for FY 99 and FY 00 are shown, by project, in table 28.

a. **Arcadia Lake.** Tulsa District continues to work with the Department of Justice and the City of Edmond to resolve the non-payment of interest accrued from the end of the 10-year interest-free period on future-use water supply storage as required by the Consent Decree and the Water Supply Act of 1958.

b. **John Redmond Reservoir.** In 1975, the state of Kansas and the United States entered into a water supply contract. After the agreement was signed, it was determined that the sediment distribution in the lake was adversely impacting the conservation pool while the flood control pool was experiencing less than expected sedimentation losses. Funds were received in FY 00 and a reallocation study was initiated. Aerial mapping and a new hydrographic survey were completed in FY 00. Results of the new area-elevation-capacity table indicated the pool would have to be raised 2 feet in order to make an equitable redistribution of sediment storage as required in the water supply contract. Additional funds were received in FY 01 and NEPA and cultural resources studies have been initiated.

c. **Broken Bow Lake.** The Water Resources Development Act of 1996 allowed for the reallocation of a sufficient quantity of existing and available water supply storage space in Broken Bow Lake to support a trout fishery. The Water Resources Development Act of 1999 allowed for a 3-foot seasonal pool to offset losses to hydropower caused by the trout fishery. Tulsa District received funds in FY 01 to initiate a reallocation study to determine the environmental, cultural and socio-economic impacts of these actions. Work is on going.

d. **Eufaula Lake.** Work is underway to construct a 1250 MW gas-fired power generating facility in Pittsburg County by the Kiowa Power Partners, LLC (KPP). The KPP has applied for and received water rights from the State of Oklahoma for 7,540 acre-feet of water per calendar year. The KPP has also applied for an addition 7,540 acre-feet of water from the state. KPP has signed a contract with the city of McAlester, Oklahoma, for 5,600 acre-feet of water per calendar year. McAlester has water rights for the additional water and has requested a water storage contract. KPP has initiated a water storage contract for it current water rights. The two contracts will double the current water storage under contract at Eufaula Lake.

e. **Sardis Lake.** The water supply agreement between the United States and the Oklahoma Water Resources Board (OWRB) is in default and the Department of Justice filed a lawsuit in July 1998. The United States lawsuit was placed in administrative park until a "qui tam" lawsuit filed by a group of Oklahoma taxpayers is resolved. The U.S. was dismissed from the case and the case was appealed to the U.S. Court of Appeals for the 10th Circuit. The 10th Circuit upheld the dismissal of the U.S. from the lawsuit. The Oklahoma taxpayers group has until approximately May

2001 to appeal the 10th Circuit's decision. The Water Resources Development Act of 1999 provided for a one-time discounted purchase price for the water supply storage. The office of Management and Budget (OMB) has oversight of this action. The OMB, Tulsa District and OWRB has worked for several months developing a scope of work (SOW) so OMB could hire an independent accounting firm to determine the discounted buyout figure. After the SOW was agreed to the OMB's attorneys rendered an opinion that OMB did not have the legal authority to negotiate the contract or to receive payments from OWRB to accomplish the work. The decision has now been made that the independent accounting firm will be hired by OWRB and will only determine the discount factor that should be applied to determine the discounted payment amount. Work is on going.

f. **Waurika Lake.** The Tulsa District did extensive cost accounting research on the water conveyance facilities at Waurika Lake. The Waurika Project Master Conservancy District (WPMCD) is responsible for 100 percent reimbursement of the construction costs. Costs were finalized for the conveyance facilities when settlement was reached on an outstanding construction claim. The WPMCD questioned all costs included in the final cost accounting. When researching the costs, Tulsa District found that lands purchased specifically for the conveyance facilities had been inadvertently charged to the reservoir. All associated land costs, including supervision and administration were backed out of the reservoir accounts and applied to the appropriate conveyance facility. The WPMCD found legislative relief for the construction claim, final construction costs and the land costs. WRDA 99 waived the \$2.9M construction claim and \$595K, which represented one-half of the difference between the 1978 construction cost estimate and the actual construction costs determined after completion of the project. The WPMCD sought additional legislative relief in WRDS 2000 but no language was passed and the WPMCD continues to pay invoices based on estimated costs rather than adjusted costs. Tulsa District continues to work with WPMCD to resolve these issues.

Table 28
Tulsa District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(In Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|-----------------|-----------------------------------|------------------------------------|--------------------------------------|-----------------|---------|
| | | | | (FY 99) | (FY 00) |

Table 28
Tulsa District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(In Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|-----------------------------|-----------------------------------|------------------------------------|--------------------------------------|-----------------|---------|
| | | | | (FY 99) | (FY 00) |
| <u>ARK RIVER BASIN</u> | | | | | |
| Arcadia | 23,090 | 23,090 | 1 | | |
| Pearson-Skubitz Big Hill | 25,700 | 25,700 | 1 | 897 | 1024 |
| Birch | 7,630 | 0 | 0 | 0 | 0 |
| Canton | 90,000 (1) | 90,000 | 1 | 0 | 0 |
| Copan | 7,500 | 5,000 | 1 | 95 | 122 |
| Council Grove | 32,400 (2) | 32,400 | 2 | 2 | 2 |
| El Dorado | 142,800 | 142,800 | 1 | 5,841 | 10,320 |
| Elk City | 20,180 (3) | 24,300 | 2 | 0 | 0 |
| Eufaula | 56,000 | 13,033 | 25 (9) | 3,397 | 3,129 |
| Fort Gibson | 0 | 0 | 0 | 14,045 | 16,150 |
| Fort Supply | 400 | 400 | 0 | 0 | 0 |
| Heyburn | 2,000 (4) | 2,000 | 3 | 1,774 | 2,126 |
| Hulah | 19,800 | 19,800 | 4 | 2,141 | 5,080 |
| John Redmond | 37,450 (5) | 44,900 (4) | 2 | 22,516 | 27,667 |
| Kaw | 17,1200 | 90,989 | 5 (6) | 7,673 | 9,105 |
| Keystone | 20,000 | 18,000 | 1 | 7,093 | 7,366 |
| Marion | 44,730 (7) | 50,800 (7) | 2 | 805 | 717 |
| Oologah | 342,600 | 327,005 | 9 | 60,629 | 60,639 |
| Optima | 76,200 | 0 | 0 | 0 | 0 |
| Skiatook | 62,900 | 15,248 | 5 (6) | 7,056 | 6,093 |
| Tenkiller | 25,400 | 17,964 | 30 | 5,571 | 6,030 |
| Toronto | 400 | 400 | 2 | 0 | 0 |
| Wister | 14,000 | 13,653 | 3 | 11,499 | 11,223 |
| | | | | | |
| <u>RED RIVER BASIN</u> | | | | | |
| Broken Bow | 152,500 (8) | 8,355 | 2 | 3,895 | 4,054 |
| Hugo | 47,600 | 45,402 | 4 | 6,997 | 7,790 |
| Pat Mayse | 109,600 | 109,600 | 1 | 12,811 | 14,030 |
| Pine Creek | 49,400 | 28,800 | 1 | 39,000 | 39,000 |
| Sardis | 297,200 | 297,200 | 1 | 0 | 0 |
| Texoma (10) | 158,060 (9) | 146,460 | 8 | 22,258 | 56,250 |

Table 28
Tulsa District
Water Supply Allocations
For Fiscal Years 1999 Through 2000
(In Acre Feet)

| PROJECT NAME | AMOUNT OF STORAGE ALLOCATED | AMOUNT OF STORAGE CONTRACTED | NUMBER OF CONTRACTS (USERS) | AMOUNT SUPPLIED | |
|-----------------|-----------------------------------|------------------------------------|--------------------------------------|-----------------|---------|
| | | | | (FY 99) | (FY 00) |
| Waurika | 151,400 | 41,800 | 1 | 1,381 | 5,383 |

(1) Based on 1977 sedimentation survey.

(4) Estimated storage to be available in year 2000.

(6) Total includes one contract for conduit only.

(8) An unspecified amount of water supply storage is to be reallocated to sustain the Oklahoma

(2) Reallocation of 8,000 acre-feet of water quality storage to water supply storage 6/26/96.

(5) Based on 1993 sedimentation resurvey; estimated storage to be available in year 2014; reallocation of 10,000 acre-feet water quality storage to water supply 6/26/96.

(7) Based on 1982 sedimentation resurvey; estimated storage to be available in year 2018; reallocation of 12,500 acre-feet water quality storage to water supply on 6/26/96.

Department of Wildlife Conservation's trout fishery in accordance with WRDA of 1996; the storage

(9) Revision due to water supply yield study; based on 1985 sedimentation survey

(3) Based on 1992 sedimentation resurvey; estimated storage to be available in year 2016; reallocation

will be reduced when determined.

(10) Joint water supply and power provided between elevation 617.0 - 590.0.

(of 10,000 acre-feet water quality to water supply 6/26/96).

8. LAKE ATTENDANCE.

Lake attendance figures (1000's visitor hours) for fiscal years 1996 through 2000 are tabulated in table 29.

Table 29
Tulsa District
Annual Lake Attendance
For Fiscal Years 1996 Through 2000
(1000's Visitor Hours)

| LAKE PROJECT | 1996 | 1997 | 1998 | 1999 | 2000 |
|------------------------|--------|--------|--------|--------|--------|
| ARCADIA LAKE | 4,245 | 1,990 | 2,206 | 2,201 | 6,790 |
| BIRCH LAKE | 954 | 1,255 | 1,198 | 1,193 | 1,024 |
| BROKEN BOW LAKE | 15,824 | 16,411 | 15,271 | 18,354 | 21,116 |
| CANTON LAKE | 11,541 | 13,277 | 11,815 | 12,533 | 11,759 |
| CHOUTEAU LOCK & DAM 17 | 890 | 1,034 | 1,432 | 1,370 | 1,109 |
| COPAN LAKE | 541 | 372 | 383 | 233 | 268 |
| COUNCIL GROVE | 1,552 | 1,401 | 1,712 | 1,816 | 1,732 |
| EL DORADO LAKE | 5,072 | 6,355 | 6,808 | 6,813 | 7,433 |
| ELK CITY LAKE | 1,369 | 1,410 | 1,649 | 1,453 | 1,267 |
| EUFAULA LAKE | 33,602 | 34,891 | 31,595 | 30,832 | 27,270 |
| FALL RIVER LAKE | 1,664 | 1,493 | 1,349 | 1,414 | 1,582 |

Table 29
Tulsa District
Annual Lake Attendance
For Fiscal Years 1996 Through 2000
(1000's Visitor Hours)

| LAKE PROJECT | 1996 | 1997 | 1998 | 1999 | 2000 |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
| FORT GIBSON LAKE | 37,249 | 35,749 | 35,038 | 31,203 | 33,163 |
| FORT SUPPLY LAKE | 5,910 | 5,810 | 5,287 | 4,842 | 4,973 |
| GREAT SALT PLAINS | 1,501 | 1,579 | 1,465 | 1,552 | 1,379 |
| HEYBURN LAKE | 1,045 | 1,177 | 1,100 | 1,094 | 851 |
| HUGO LAKE | 1,965 | 1,796 | 1,900 | 2,259 | 2,306 |
| HULAH LAKE | 471 | 532 | 516 | 463 | 399 |
| JOHN REDMOND RESERVOIR | 1,040 | 1,368 | 883 | 2,044 | 967 |
| KAW LAKE | 6,899 | 7,330 | 5,591 | 1,703 | 4,850 |
| KEYSTONE LAKE | 8,908 | 8,056 | 9,241 | 9,158 | 8,192 |
| MARION RESERVOIR | 3,961 | 7,438 | 7,361 | 7,815 | 5,935 |
| NEWT GRAHAM LOCK & DAM 18 | 895 | 1,031 | 1,212 | 1,010 | 1,037 |
| OOLOGAH LAKE | 16,234 | 13,857 | 13,837 | 13,244 | 12,294 |
| OPTIMA LAKE | 114 | 81 | 102 | 101 | 62 |
| PAT MAYSE LAKE | 1,645 | 1,248 | 1,248 | 1,322 | 1,258 |
| PEARSON-SKUBITZ BIG HILL LAKE | 1,326 | 1,497 | 1,145 | 1,184 | 1,146 |
| PINE CREEK LAKE | 6,434 | 5,398 | 3,817 | 4,886 | 5,409 |
| ROBERT S. KERR, LOCK & DAM 15 | 2,693 | 2,722 | 3,362 | 3,549 | 3,960 |
| SARDIS LAKE | 2,627 | 2,581 | 2,477 | 2,357 | 2,340 |
| SKIATOOK LAKE | 3,693 | 5,271 | 4,573 | 4,749 | 5,079 |
| TENKILLER FERRY LAKE | 21,061 | 21,499 | 21,533 | 19,354 | 26,499 |
| TEXOMA LAKE | 81,715 | 90,375 | 80,541 | 90,096 | 87,294 |
| TORONTO LAKE | 2,132 | 2,365 | 2,145 | 2,270 | 1,852 |
| WAURIKA LAKE | 2,149 | 250 | 2,077 | 2,158 | 2,149 |
| WD MAYO LOCK & DAM 14 | 265 | 2,277 | 275 | 256 | 6,259 |
| WEBBERS FALLS LOCK & DAM 16 | 6,562 | 7,291 | 8,500 | 7,458 | 6,929 |
| WISTER LAKE | 3,124 | 3,788 | 2,460 | 3,866 | 3,392 |
| Total | 298,873 | 312,255 | 294,027 | 298,204 | 305,326 |

9. COOPERATIVE PROGRAMS.

- a. National Weather Service.** Real-time water control, investigation and design of our water resources projects require the measurement and reporting of rainfall and evaporation data. These data are provided through a cooperative program with the National Weather Service. During FY 00, the rainfall program in the Tulsa District cost \$122,358 through transfer of funds to the National Weather Service.
- b. U.S. Geological Survey.** Much of the information required for water control, hydrologic

investigation, and design of water resources projects results from the reporting and measurement of flow, water quality, and sediment provided by a cooperative program with the USGS. During FY 00, this cooperative program included 86 stations. There were 95 other stations operated independently by the Corps of Engineers. The Corps also partially maintained 33 surface water gages and 3 water quality gages. In FY 00, Tulsa District transferred \$398,660 to the USGS for operation of stations and data publications. The total CE/USGS program cost for FY 2001 will be \$405,805.

10. SEDIMENT ACTIVITIES.

During FY 2000, contract hydrographic surveys were completed on John Redmond Lake in Kansas, and Keystone Lake in Oklahoma. Both contracts provided raw data to the Tulsa District. The survey for John Redmond Lake was processed, and new area-capacity table developed. Data from the survey was provided for the John Redmond Reallocation Study, and was also used to update the future sedimentation forecast for that reservoir. Keystone Lake data is awaiting processing. A portion of Oologah Lake that was missed on the recent hydrographic survey was redone, and the data was added to the existing files for processing. Hydrographic data was also obtained for a hydraulic study of the Neosho River below Fort Gibson Lake. Completion of processing for the Lake Texoma and Keystone surveys is anticipated during FY 2001. No suspended sediment samples were collected or processed by the Tulsa District in FY 2000, and there is no expectation that any will be collected in FY 2001.

11. FY 00 PROJECT VISITATION BY WATER MANAGEMENT PERSONNEL.

A minimum of one-half of all flood control projects in the District (25 projects) are visited by the regulators each year with at least one-fourth (13 projects) having emergency plan presentations.

- a. **PROJECT VISITS by Regulators:** The Tulsa District regulators made 58 site visits during FY2000. They presented emergency regulations to 28 projects.
- b. Several visits were made to Little Rock and Fort Smith, Arkansas to coordinate with the Little Rock District on the Arkansas River Navigation Study.

12. WATER CONTROL STAFFING.

Table 29
Tulsa District
Water Control Staff

| Name | Org. Code | Position | Phone #. | Grade |
|--|------------------|------------------------|-----------------|--------------|
| Ron Bell | CESWT-EC-HM | Chief, Water Control | 918-669-7093 | GS-13 |
| Gene Jones | CESWT-EC-HM | Reservoir Operations | 918-669-7095 | GS-12 |
| John Clark | CESWT-EC-HM | Reservoir Operations | 918-669-7097 | GS-12 |
| Don Butler | CESWT-EC-HM | Reservoir Operations | 918-669-7102 | GS-12 |
| Greg Estep | CESWT-EC-HM | Reservoir Operations | 918-669-7132 | GS-12 |
| Jim Croston | CESWT-EC-HM | Reservoir Operations | 918-669-7103 | GS-12 |
| Bill Chatron | CESWT-EC-HM | Reservoir Operations | 918-669-7094 | GS-12 |
| Dallas Tomlinson | CESWT-EC-HM | Reservoir Operations | 918-669-7093 | GS-12 |
| Marshall Boyken | CESWT-EC-HM | Reservoir Operations | 918-669-7098 | GS-12 |
| Kelita Stephens | CESWT-EC-HM | Reservoir Operations | 918-669-7002 | GS-12 |
| Jan Holsomback | CESWT-EC-HM | Water Supply Contracts | 918-669-7089 | GS-12 |
| | | | | |
| Vacant | | Chief, Forecasting/CP | | GS-13 |
| John Daylor | CESWT-EC-HF | Forecasting | 918-669-7099 | GS-12 |
| Mary Ann Duke | CESWT-EC-HF | Forecasting | 918-669-7100 | GS-12 |
| Mike Perryman | CESWT-EC-HF | Computer Processing | 918-669-7138 | GS-12 |
| Lisa Samilton | CESWT-EC-HF | Computer Processing | 918-669-7537 | GS-12 |
| Dan Hernandez | CESWT-EC-HF | Computer Processing | 918-669-7506 | GS-12 |
| Calvin Hall | CESWT-EC-HF | Computer Technician | 918-669-7141 | GS-9 |
| | | | | |
| * Ted Holsomback | CESWT-EC-HA | Chief | 918-669-7493 | GS-13 |
| Ray Barnes | CESWT-EC-HA | Instrumentation | 918-669-7108 | GS-12 |
| Paul Bisdorf | CESWT-EC-HA | Instrument Technician | 918-669-7504 | GS-9 |
| Deb Oswalt | CESWT-EC-HA | Instrument Technician | 918-669-7502 | GS-11 |
| Dion Burleson | CESWT-EC-HA | Instrument Technician | 918-669-7503 | GS-11 |
| Randy Moe | CESWT-EC-HA | Instrument Technician | 918-669-4945 | GS-5 |
| * Jim Leach | CESWT-EC-HA | Backup Forecaster | 918-669-7091 | GS-12 |
| * Russ Wyckoff | CESWT-EC-HA | Backup Forecaster | 918-669-7107 | GS-12 |
| * Karol Rutz | CESWT-EC-HA | Backup Forecaster | 918-669-7353 | GS-12 |
| * Scott Henderson | CESWT-EC-HA | Backup Forecaster | 918-669-7509 | GS-12 |
| | | | | |
| * Personnel whose main assignments are H&H studies not water control | | | | |
| | | | | |

SECTION X
RESERVOIR DATA SUMMARY

SECTION X - RESERVOIR DATA SUMMARY

Table 31
Lake Summary Index
By Watershed

| LAKE NAME | STREAM | DIST | STATE | YR COMP | POOL CON | ELEV FC | CAPACITY** (1,000 AF) | | PAGE NO |
|--------------------------------|--------------------|------|-------|------------|-------------|------------|--------------------------|------|------------|
| | | | | | | | CON | FC | |
| White River Basin | | | | | | | | | |
| Beaver Lake | White | LRD | AR | 66 | 1120 | 1130 | 1652 | 300 | X-33 |
| Table Rock Lake | White | LRD | AR/MO | 58 | 915 | 931 | 2702 | 760 | X-33 |
| Bull Shoals Lake | White | LRD | AR/MO | 52 | 654 | 695 | 3048 | 2360 | X-34 |
| Norfork Lake | North Fork | LRD | AR/MO | 45 | 552 | 580 | 1251 | 732 | X-34 |
| Clearwater Lake | Black | LRD | MO | 48 | 494 | 567 | 22 | 391 | X-35 |
| Greers Ferry Lake | Little Red | LRD | AR | 62 | 461 | 487 | 1119 | 934 | X-35 |
| Arkansas River Basin | | | | | | | | | |
| Cheney Reservoir | N. Fork Ninnescah | TD* | KS | 64 | 1421.6 | 1429 | 167 | 81 | X- 10 |
| El Dorado Lake | Walnut River | TD | KS | 80 | 1339 | 1347.5 | 157 | 79 | X- 13 |
| Kaw Lake | Arkansas River | TD | OK/KS | 76 | 1010 | 1044.5 | 429 | 919 | X- 17 |
| Great Salt Plains | Salt Fork Arkansas | TD | OK | 41 | 1125 | 1138.5 | 31 | 240 | X- 15 |
| Keystone Lake | Arkansas River | TD | OK | 64 | 723 | 754 | 618 | 1219 | X- 18 |
| Heyburn Lake | Polecat Creek | TD | OK | 50 | 761.5 | 784 | 7 | 48 | X- 16 |
| Toronto Lake | Verdigris River | TD | KS | 60 | 901.5 | 931 | 22 | 178 | X- 22 |
| Fall River Lake | Fall River | TD | KS | 49 | 948.5 | 987.5 | 24 | 235 | X- 14 |
| Elk City Lake | Elk River | TD | KS | 66 | 792 | 825 | 34 | 256 | X- 12 |
| Big Hill Lake | Big Hill Creek | TD | KS | 81 | 858 | 867.5 | 27 | 13 | X-9 |
| Oologah Lake | Verdigris River | TD | OK | 63 | 638 | 661 | 553 | 966 | X-20 |
| Hulah Lake | Caney River | TD | OK/KS | 51 | 733 | 765 | 36 | 258 | X-16 |
| Copan Lake | L Caney | TD | OK/KS | 80 | 710 | 732 | 43 | 184 | X-12 |
| Birch Lake | Birch Creek | TD | OK | 79 | 750.5 | 774 | 19 | 39 | X-10 |
| Skiatook Lake | Hominy Creek | TD | OK | 82 | 714 | 729 | 305 | 182 | X-21 |
| Newt Graham (L&D 18) | Verdigris River | TD | OK | 70 | 532 | 0 | 24 | 0 | X-23 |
| Chouteau (L&D 17) | Verdigris River | TD | OK | 70 | 511 | 0 | 23 | 0 | X-25 |
| Council Grove Lake | Neosho River | TD | KS | 65 | 1270 | 1289 | 38 | 76 | X-11 |
| Marion Lake | Cottonwood River | TD | KS | 68 | 1350.5 | 1358.5 | 86 | 60 | X-19 |
| John Redmond Dam | Neosho River | TD | KS | 64 | 1039 | 1068 | 82 | 563 | X-17 |
| Pensacola Lake (Grand Lake) | Neosho (Grand) | TD* | OK | 40 | 745 | 755 | 1672 | 525 | X-21 |
| Lake Hudson | Neosho (Grand) | TD* | OK | 64 | 619 | 636 | 200 | 244 | X-18 |
| Fort Gibson Lake | Neosho (Grand) | TD | OK | 52 | 544 | 582 | 365 | 919 | X-15 |
| Webbers Falls (L&D 16) | Arkansas River | TD | OK | 70 | 490 | 0 | 165 | 0 | X-25 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 31
Lake Summary Index
By Watershed

| LAKE NAME | STREAM | DIST | STATE | YR COMP | POOL CON | ELEV FC | CAPACITY** (1,000 AF) | | PAGE NO |
|--|-------------------|------|-------|------------|-------------|------------|--------------------------|------|------------|
| | | | | | | | CON | FC | |
| Tenkiller Ferry Lake | Illinois River | TD | OK | 52 | 632 | 667 | 654 | 577 | X-22 |
| Lake Meredith (Sanford) | Canadian River | TD* | TX | 65 | 2941.3 | 2965 | 945 | 463 | X-19 |
| Lake Thunderbird (Norman) | Little River | TD* | OK | 65 | 1039 | 1049.4 | 120 | 77 | X-20 |
| Optima | N Canadian River | TD | OK | 78 | 2763.5 | 2779 | 129 | 101 | *** |
| Fort Supply Lake | Wolf Creek | TD | OK | 42 | 2004 | 2028 | 14 | 87 | X-14 |
| Canton Lake | N Canadian River | TD | OK | 48 | 1615.2 | 1638 | 116 | 268 | X-11 |
| Arcadia Lake | Arkansas River | TD | OK | 86 | 1006 | 1029.5 | 28 | 65 | X-9 |
| Eufaula Lake | Canadian River | TD | OK | 64 | 585 | 597 | 2329 | 1470 | X-13 |
| Robert S. Kerr (L&D 15) | Arkansas River | TD | OK | 70 | 460 | 0 | 494 | 0 | X-24 |
| W D Mayo (L&D 14) | Arkansas River | TD | OK | 70 | 413 | 0 | 16 | 0 | X-24 |
| Wister Lake | Poteau River | TD | OK | 49 | 471.6 | 502.5 | 27 | 400 | X-23 |
| James W Trimble (L&D 13) | Arkansas River | LRD | AR/OK | 69 | 392 | 0 | 54 | 0 | X-36 |
| Ozark-Jetta Taylor (L&D 12) | Arkansas River | LRD | AR | 69 | 372 | 0 | 148 | 0 | X-36 |
| Dardanelle (L&D 10) | Arkansas River | LRD | AR | 64 | 338 | 0 | 486 | 0 | X-37 |
| Blue Mountain Lake | Petit Jean | LRD | AR | 47 | 384 | 419 | 25 | 233 | X-37 |
| Arthur V Ormond (L&D 9) | Arkansas River | LRD | AR | 69 | 287 | 0 | 65 | 0 | X-38 |
| Toad Suck Ferry (L&D 8) | Arkansas River | LRD | AR | 69 | 265 | 0 | 35 | 0 | X-38 |
| Nimrod Lake | Fourche La Fave | LRD | AR | 42 | 342 | 373 | 29 | 307 | X-39 |
| Murray (L&D 7) | Arkansas River | LRD | AR | 69 | 249 | 0 | 87 | 0 | X-39 |
| David D. Terry (L&D 6) | Arkansas River | LRD | AR | 68 | 231 | 0 | 50 | 0 | X-40 |
| Lock And Dam No. 5 | Arkansas River | LRD | AR | 68 | 213 | 0 | 65 | 0 | X-40 |
| Emmett Sanders (L&D 4) | Arkansas River | LRD | AR | 68 | 196 | 0 | 70 | 0 | X-41 |
| Lock And Dam No. 3 | Arkansas River | LRD | AR | 68 | 182 | 0 | 46 | 0 | X-41 |
| Wilbur D Mills (L&D 2) | Arkansas River | LRD | AR | 67 | 162 | 0 | 110 | 0 | X-42 |
| Red River Basin | | | | | | | | | |
| Altus Reservoir | N. Fork Red River | TD* | OK | 46 | 1559 | 1562 | 141 | 21 | X-26 |
| Tom Steed Reservoir (Mountain Park) | W Otter Creek | TD* | OK | 75 | 1411 | 1414 | 96 | 20 | X-30 |
| Lake Kemp | Wichita River | TD* | TX | 77 | 1144 | 1156 | 299 | 225 | X-32 |
| Waurika Lake | Beaver Creek | TD | OK | 78 | 951.4 | 962.5 | 203 | 140 | X-32 |
| Foss Reservoir | Washita River | TD* | OK | 61 | 1562 | 1668.6 | 256 | 181 | X-28 |
| Fort Cobb | Cobb Creek | TD* | OK | 59 | 1342 | 1354.8 | 78 | 64 | X-29 |
| Arbuckle Reservoir | Rock Creek | TD* | OK | 67 | 872 | 885.3 | 72 | 36 | X-26 |
| Denison Dam (Lake Texoma) | Red River | TD | TX/OK | 45 | 617.3 | 640 | 2836 | 2660 | X-28 |
| McGee Creek | McGee Creek | TD* | OK | 87 | 577 | 595.5 | 113 | 199 | X-30 |
| Pat Mayse Lake | Sanders Creek | TD | TX | 68 | 451 | 460.5 | 124 | 65 | X-31 |
| Sardis Lake | Jack Fork Creek | TD | OK | 84 | 599 | 607 | 302 | 128 | X-27 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 31
Lake Summary Index
By Watershed

| LAKE NAME | STREAM | DIST | STATE | YR COMP | POOL CON | ELEV FC | CAPACITY** (1,000 AF) | | PAGE NO |
|----------------------------------|--------------------|------|-------|------------|-------------|------------|--------------------------|------|------------|
| | | | | | | | CON | FC | |
| Hugo Lake | Kiamichi River | TD | OK | 74 | 404.5 | 437.5 | 157 | 809 | X-29 |
| Pine Creek Lake | Little River | TD | OK | 69 | 443.5 | 480 | 78 | 388 | X-31 |
| Broken Bow Lake | Mountain Fork | TD | OK | 69 | 599.5 | 627.5 | 919 | 450 | X-27 |
| Dequeen Lake | Rolling Fork | LRD | AR | 77 | 437 | 473.5 | 35 | 101 | X-43 |
| Gillham Lake | Cossatot | LRD | AR | 76 | 502 | 569 | 33 | 189 | X-43 |
| Dierks Lake | Saline River | LRD | AR | 76 | 526 | 557.5 | 30 | 67 | X-44 |
| Millwood Lake | Little River | LRD | AR | 66 | 259.2 | 287 | 207 | 1653 | X-44 |
| Cooper Dam (Jim Chapman Lake) | Sulphur River | FWD | TX | 92 | 440 | 446.2 | 273 | 130 | X-45 |
| Wright Patman Lake | Sulphur River | FWD | TX | 56 | 220 | 259.5 | 143 | 2509 | X-45 |
| Lake O' The Pines | Cypress Creek | FWD | TX | 60 | 228.5 | 249.5 | 251 | 580 | X-46 |
| Neches River Basin | | | | | | | | | |
| Sam Rayburn | Angelina River | FWD | TX | 65 | 164.4 | 173 | 2898 | 1009 | X-46 |
| B. A. Steinhagen | Neches River | FWD | TX | 51 | 81 | 83 | 70 | 24 | X-47 |
| Trinity River Basin | | | | | | | | | |
| Benbrook Lake | Clear Fork | FWD | TX | 52 | 694 | 724 | 88 | 170 | X-47 |
| Joe Pool Lake | Mt. Creek | FWD | TX | 86 | 522 | 536 | 143 | 123 | X-48 |
| Lake Ray Roberts | Elm Fork | FWD | TX | 87 | 632.5 | 640.5 | 749 | 260 | X-48 |
| Lewisville Lake | Elm Fork | FWD | TX | 54 | 515 | 532 | 465 | 525 | X-49 |
| Grapevine Lake | Denton Creek | FWD | TX | 52 | 535 | 560 | 189 | 248 | X-49 |
| Lavon Lake | East Fork | FWD | TX | 77 | 492 | 503.5 | 457 | 277 | X-50 |
| Navarro Mills Lake | Richland Creek | FWD | TX | 68 | 424.5 | 443 | 63 | 149 | X-50 |
| Bardwell Lake | Waxahachie Creek | FWD | TX | 65 | 421 | 439 | 55 | 85 | X-51 |
| San Jacinto River Basin | | | | | | | | | |
| Barker Reservoir | Buffalo Bayou | GD | TX | 45 | 0 | 107 | 0 | 207 | X-59 |
| Addicks Reservoir | Buffalo Bayou | GD | TX | 48 | 0 | 114 | 0 | 205 | X-59 |
| Brazos River Basin | | | | | | | | | |
| Whitney Lake | Brazos | FWD | TX | 51 | 533 | 571 | 627 | 1372 | X-51 |
| Aquilla Lake | Aquilla | FWD | TX | 83 | 537.5 | 556 | 34 | 87 | X-52 |
| Waco Lake | Bosque | FWD | TX | 65 | 455 | 500 | 153 | 574 | X-52 |
| Proctor Lake | Leon River | FWD | TX | 63 | 1162 | 1197 | 59 | 315 | X-53 |
| Belton Lake | Leon River | FWD | TX | 54 | 594 | 631 | 458 | 640 | X-53 |
| Stillhouse Hollow | Lampasas River | FWD | TX | 68 | 622 | 666 | 236 | 395 | X-54 |
| Georgetown Lake | N Fork San Gabriel | FWD | TX | 79 | 791 | 834 | 37 | 93 | X-54 |
| Granger Lake | San Gabriel River | FWD | TX | 79 | 504 | 524 | 66 | 179 | X-55 |
| Somerville Lake | Yegua Creek | FWD | TX | 67 | 238 | 258 | 160 | 347 | X-55 |
| | | | | | | | | | |
| Colorado River Basin | | | | | | | | | |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 31
Lake Summary Index
By Watershed

| LAKE NAME | STREAM | DIST | STATE | YR COMP | POOL CON | ELEV FC | CAPACITY** (1,000 AF) | | PAGE NO |
|-----------------------|------------------|------|-------|------------|-------------|------------|--------------------------|-----|------------|
| | | | | | | | CON | FC | |
| Twin Buttes Lake | S&M Concho River | FWD* | TX | 63 | 1940.2 | 1969.1 | 186 | 454 | X-56 |
| O. C. Fisher Lake | N Concho River | FWD | TX | 52 | 1908 | 1938.5 | 119 | 277 | X-56 |
| Hords Creek Lake | Hords Creek | FWD | TX | | 1900 | 1920 | 9 | 17 | X-57 |
| Marshall Ford Lake | Colorado River | FWD* | TX | 40 | 81 | 714 | 1172 | 780 | X-57 |
| Guadalupe River Basin | | | | | | | | | |
| Canyon Lake | Guadalupe River | FWD | TX | 64 | 909 | 943 | 386 | 355 | X-58 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 32
Lake Summary Index
Alphabetically

| Project Name | River Basin | Page Number |
|-------------------------------|--------------------|--------------------|
| Addicks Reservoir | San Jacinto River | X-59 |
| Altus Reservoir | Red River | X-26 |
| Aquilla Lake | Brazos River | X-52 |
| Arbuckle Reservoir | Red River | X-26 |
| Arcadia Lake | Arkansas River | X-9 |
| Arthur V. Ormond (L&D 9) | Arkansas River | X-38 |
| B. A. Steinhagen | Neches River | X-47 |
| Bardwell Lake | Trinity River | X-51 |
| Barker Reservoir | San Jacinto River | X-59 |
| Beaver Lake | White River | X-33 |
| Belton Lake | Brazos River | X-53 |
| Benbrook Lake | Trinity River | X-47 |
| Big Hill Lake | Arkansas River | X-9 |
| Birch Lake | Arkansas River | X-10 |
| Blue Mountain Lake | Arkansas River | X-37 |
| Broken Bow Lake | Red River | X-27 |
| Bull Shoals Lake | White River | X-34 |
| Canton Lake | Arkansas River | X-11 |
| Canyon Lake | Guadalupe River | X-58 |
| Cheney Reservoir | Arkansas River | X-10 |
| Chouteau (L&D 17) | Arkansas River | X-25 |
| Clearwater Lake | White River | X-35 |
| Cooper Dam (Jim Chapman Lake) | Red River | X-45 |
| Copan Lake | Arkansas River | X-12 |
| Council Grove Lake | Arkansas River | X-11 |
| Dardanelle (L&D 10) | Arkansas River | X-37 |
| David D. Terry (L&D 6) | Arkansas River | X-40 |
| Denison Dam (Lake Texoma) | Red River | X-28 |
| DeQueen Lake | Red River | X-43 |
| Dierks Lake | Red River | X-44 |
| El Dorado Lake | Arkansas River | X-13 |
| Elk City Lake | Arkansas River | X-12 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 32
Lake Summary Index
Alphabetically

| Project Name | River Basin | Page Number |
|---------------------------|--------------------|--------------------|
| Emmett Sanders (L&D 4) | Arkansas River | X-41 |
| Eufaula Lake | Arkansas River | X-13 |
| Fall River Lake | Arkansas River | X-14 |
| Fort Cobb | Red River | X-29 |
| Fort Gibson Lake | Arkansas River | X-15 |
| Fort Supply Lake | Arkansas River | X-14 |
| Foss Reservoir | Red River | X-28 |
| Georgetown Lake | Brazos River | X-54 |
| Gillham Lake | Red River | X-43 |
| Granger Lake | Brazos River | X-55 |
| Grapevine Lake | Trinity River | X-49 |
| Great Salt Plains | Arkansas River | X-15 |
| Greers Ferry Lake | White River | X-35 |
| Heyburn Lake | Arkansas River | X-16 |
| Hords Creek Lake | Colorado River | X-57 |
| Hugo Lake | Red River | X-29 |
| Hulah Lake | Arkansas River | X-16 |
| James W. Trimble (L&D 13) | Arkansas River | X-36 |
| Joe Pool Lake | Trinity River | X-48 |
| John Redmond Dam | Arkansas River | X-17 |
| Kaw Lake | Arkansas River | X-17 |
| Keystone Lake | Arkansas River | X-18 |
| Lake Hudson | Arkansas River | X-18 |
| Lake Kemp | Red River | X-32 |
| Lake Meredith (Sanford) | Arkansas River | X-19 |
| Lake O' The Pines | Red River | X-46 |
| Lake Ray Roberts | Trinity River | X-48 |
| Lake Sam Rayburn | Neches River | X-46 |
| Lake Thunderbird (Norman) | Arkansas River | X-20 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 32
Lake Summary Index
Alphabetically

| Project Name | River Basin | Page Number |
|-----------------------------|--------------------|--------------------|
| Lavon Lake | Trinity River | X-50 |
| Lewisville Lake | Trinity River | X-49 |
| Lock & Dam No. 3 | Arkansas River | X-41 |
| Lock & Dam No. 5 | Arkansas River | X-40 |
| Marion Lake | Arkansas River | X-19 |
| Marshall Ford Lake | Colorado River | X-57 |
| McGee Creek | Red River | X-30 |
| Millwood Lake | Red River | X-44 |
| Murray (L&D 7) | Arkansas River | X-39 |
| Navarro Mills Lake | Trinity River | X-50 |
| Newt Graham (L&D 18) | Arkansas River | X-23 |
| Nimrod Lake | Arkansas River | X-39 |
| Norfork Lake | White River | X-34 |
| O. C. Fisher Lake | Colorado River | X-56 |
| Oologah Lake | Arkansas River | X-20 |
| Optima Lake | Arkansas River | *** |
| Ozark-Jetta Taylor (L&D 12) | Arkansas River | X-36 |
| Pat Mayse Lake | Red River | X-31 |
| Pensacola Lake(Grand Lake) | Arkansas River | X-21 |
| Pine Creek Lake | Red River | X-31 |
| Proctor Lake | Brazos River | X-53 |
| Robert S. Kerr (L&D 15) | Arkansas River | X-24 |
| Sardis Lake | Red River | X-27 |
| Skiatook Lake | Arkansas River | X-21 |
| Somerville Lake | Brazos River | X-55 |
| Stillhouse Hollow | Brazos River | X-54 |
| Table Rock Lake | White River | X-33 |
| Tenkiller Ferry Lake | Arkansas River | X-22 |
| Toad Suck Ferry (L&D 8) | Arkansas River | X-38 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

Table 32
Lake Summary Index
Alphabetically

| Project Name | River Basin | Page Number |
|-------------------------------------|--------------------|--------------------|
| Tom Steed Reservoir (Mountain Park) | Red River | X-30 |
| Toronto Lake | Arkansas River | X-22 |
| Twin Buttes Lake | Colorado River | X-56 |
| W D Mayo (L&D 14) | Arkansas River | X-24 |
| Waco Lake | Brazos River | X-52 |
| Waurika Lake | Red River | X-32 |
| Webbers Falls (L&D 16) | Arkansas River | X-25 |
| Whitney Lake | Brazos River | X-51 |
| Wilbur D. Mills (L&D 2) | Arkansas River | X-42 |
| Wister Lake | Arkansas River | X-23 |
| Wright Patman Lake | Red River | X-45 |

* Section 7 Flood Control Projects

** Includes dead storage, conservation, water supply, power, irrigation, etc.

*** Records not maintained due to low flow conditions

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| ARCADIA LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1939 THRU 2000 | 2.92 | 2.24 | 1.77 | 1.71 | 1.98 | 3.34 | 4.16 | 8.08 | 5.98 | 2.54 | 1.73 | 2.84 | 39.3 |
| FY 2000 | 1.70 | 0.08 | 3.84 | 0.83 | 1.85 | 2.47 | 6.17 | 2.65 | 6.02 | 2.86 | 0.31 | 0.37 | 29.1 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1989 THRU 2000 | 1.78 | 3.16 | 2.43 | 2.54 | 1.51 | 3.25 | 3.60 | 8.45 | 7.90 | 4.98 | 2.70 | 4.05 | 46.3 |
| FY 2000 | 0.00 | 0.00 | 2.55 | 0.09 | 1.02 | 2.38 | 0.50 | 5.62 | 2.05 | 4.10 | 0.00 | 0.00 | 18.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.71 | 2.09 | 1.51 | 1.23 | 1.56 | 2.44 | 3.28 | 5.37 | 4.44 | 2.75 | 2.70 | 3.64 | 33.71 |
| FY 2000 | 1.79 | 0.04 | 2.88 | 0.79 | 0.90 | 2.12 | 2.01 | 4.19 | 5.75 | 2.71 | 0.00 | 0.90 | 24.08 |
| DEVIATION | -0.92 | -2.05 | 1.37 | -0.44 | -0.66 | -0.32 | -1.27 | -1.18 | 1.31 | -0.04 | -2.70 | -2.74 | -9.63 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1006.05 | 1005.85 | 1006.06 | 1006.32 | 1006.41 | 1006.08 | 1008.54 | 1006.30 | 1007.65 | 1006.22 | 1005.04 | 1004.10 | |
| MAXIMUM | 1006.05 | 1006.07 | 1007.03 | 1006.37 | 1006.47 | 1006.61 | 1008.54 | 1009.26 | 1007.85 | 1007.65 | 1006.22 | 1005.04 | |
| MINIMUM | 1005.25 | 1005.83 | 1005.83 | 1006.06 | 1006.09 | 1006.07 | 1005.91 | 1006.06 | 1006.16 | 1005.97 | 1005.04 | 1004.10 | |
| POOL CONTENT-EOM (1000AC.FT) | 27.66 | 27.30 | 27.68 | 28.16 | 28.33 | 27.72 | 32.43 | 28.13 | 30.68 | 27.98 | 25.86 | 24.24 | |
| BIG HILL LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1929 THRU 2000 | 1.72 | 1.44 | 0.85 | 0.97 | 0.99 | 2.05 | 2.53 | 3.27 | 3.34 | 1.54 | 0.43 | 1.34 | 20.5 |
| FY 2000 | 0.13 | 0.18 | 0.60 | 0.05 | 0.76 | 2.95 | 0.85 | 3.29 | 7.97 | 0.45 | 0.00 | 0.00 | 17.2 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1984 THRU 2000 | 2.14 | 1.81 | 1.09 | 1.08 | 1.56 | 3.08 | 2.55 | 3.34 | 2.84 | 1.13 | 0.83 | 0.85 | 22.3 |
| FY 2000 | 0.00 | 0.12 | 0.00 | 0.00 | 0.68 | 1.09 | 1.03 | 1.60 | 6.83 | 0.68 | 0.00 | 0.00 | 12.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.27 | 2.58 | 1.52 | 1.33 | 1.35 | 2.61 | 3.79 | 5.18 | 5.35 | 3.79 | 3.44 | 4.59 | 38.80 |
| FY 2000 | 0.95 | 1.20 | 3.56 | 0.29 | 2.48 | 4.69 | 1.00 | 6.36 | 9.19 | 4.65 | 0.02 | 1.66 | 36.05 |
| DEVIATION | -2.32 | -1.38 | 2.04 | -1.04 | 1.13 | 2.08 | -2.79 | 1.18 | 3.84 | 0.86 | -3.42 | -2.93 | -2.75 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 856.53 | 856.28 | 856.61 | 856.52 | 856.38 | 857.83 | 857.24 | 858.22 | 858.69 | 857.96 | 857.19 | 856.44 | |
| MAXIMUM | 856.78 | 856.55 | 856.72 | 856.65 | 856.71 | 857.96 | 857.85 | 858.99 | 860.05 | 858.74 | 857.98 | 857.19 | |
| MINIMUM | 856.43 | 856.15 | 856.05 | 856.50 | 856.38 | 855.98 | 857.10 | 857.24 | 858.02 | 857.88 | 857.14 | 856.44 | |
| POOL CONTENT-EOM (1000AC.FT) | 25.25 | 24.96 | 25.34 | 25.24 | 25.07 | 26.77 | 26.07 | 27.23 | 27.80 | 26.92 | 26.01 | 25.14 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| BIRCH LAKE | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1938 THRU 2000 | 2.13 | 1.72 | 1.42 | 1.13 | 1.52 | 3.58 | 4.20 | 6.00 | 3.94 | 1.56 | 0.81 | 1.71 | 29.7 |
| FY 2000 | 0.01 | 0.11 | 3.46 | 0.06 | 0.84 | 9.36 | 2.20 | 23.39 | 9.09 | 0.91 | 0.00 | 0.00 | 49.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1979 THRU 2000 | 2.57 | 1.72 | 1.69 | 1.53 | 2.18 | 5.33 | 3.85 | 6.89 | 5.02 | 2.19 | 0.84 | 0.68 | 34.5 |
| FY 2000 | 0.49 | 0.07 | 1.28 | 0.06 | 0.06 | 9.28 | 0.79 | 18.93 | 6.09 | 4.15 | 0.83 | 0.48 | 42.5 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.85 | 2.40 | 1.54 | 1.29 | 1.48 | 2.54 | 3.49 | 4.95 | 4.73 | 3.11 | 3.13 | 4.24 | 35.76 |
| FY 2000 | 1.29 | 0.24 | 4.38 | 0.73 | 0.94 | 4.98 | 2.04 | 12.14 | 7.50 | 5.01 | 0.02 | 0.99 | 40.26 |
| DEVIATION | -1.56 | -2.16 | 2.84 | -0.56 | -0.54 | 2.44 | -1.45 | 7.19 | 2.77 | 1.90 | -3.11 | -3.25 | 4.50 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 748.96 | 748.66 | 750.36 | 750.18 | 750.57 | 750.34 | 751.12 | 752.68 | 754.56 | 751.39 | 749.43 | 747.90 | |
| MAXIMUM | 749.84 | 748.97 | 751.52 | 750.37 | 750.63 | 752.68 | 751.12 | 761.53 | 756.23 | 754.56 | 751.39 | 749.43 | |
| MINIMUM | 748.87 | 748.66 | 748.64 | 750.16 | 750.11 | 750.25 | 750.34 | 750.58 | 750.34 | 750.31 | 749.43 | 747.90 | |
| POOL CONTENT-EOM (1000AC.FT) | 17.50 | 17.18 | 19.06 | 18.86 | 19.30 | 19.04 | 19.94 | 21.80 | 24.16 | 20.26 | 18.02 | 16.37 | |
| CHENEY RESERVOIR | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1950 THRU 2000 | 11.18 | 7.84 | 6.99 | 7.07 | 8.71 | 16.50 | 14.94 | 20.02 | 16.75 | 10.69 | 5.44 | 8.96 | 135.1 |
| FY 2000 | 1.26 | 3.54 | 7.86 | 3.81 | 11.60 | 64.66 | 14.28 | 10.55 | 8.25 | 9.34 | 1.15 | 2.02 | 138.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 5.87 | 8.30 | 3.80 | 4.31 | 5.62 | 8.97 | 14.83 | 13.07 | 14.13 | 8.99 | 2.20 | 2.77 | 92.8 |
| FY 2000 | 8.98 | 0.00 | 0.00 | 0.00 | 0.00 | 7.98 | 28.47 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 48.5 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.07 | 1.32 | 0.84 | 0.64 | 0.99 | 1.78 | 2.26 | 3.80 | 3.93 | 3.09 | 3.24 | 2.75 | 26.70 |
| FY 2000 | 0.11 | 0.32 | 2.75 | 0.15 | 2.50 | 5.97 | 1.08 | 2.49 | 5.85 | 5.94 | 0.10 | 0.93 | 28.19 |
| DEVIATION | -1.96 | -1.00 | 1.91 | -0.49 | 1.51 | 4.19 | -1.18 | -1.31 | 1.92 | 2.85 | -3.14 | -1.82 | 1.49 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1416.29 | 1416.09 | 1416.55 | 1416.88 | 1417.95 | 1423.62 | 1421.82 | 1421.72 | 1421.49 | 1421.28 | 1420.20 | 1419.00 | |
| MAXIMUM | 1417.83 | 1416.40 | 1416.58 | 1416.88 | 1418.00 | 1423.93 | 1423.62 | 1421.84 | 1421.82 | 1421.49 | 1421.29 | 1420.20 | |
| MINIMUM | 1416.29 | 1416.03 | 1416.04 | 1416.51 | 1416.87 | 1417.95 | 1421.64 | 1421.51 | 1421.36 | 1420.90 | 1420.18 | 1419.00 | |
| POOL CONTENT-EOM (1000AC.FT) | 121.32 | 119.76 | 123.34 | 125.91 | 134.55 | 187.07 | 169.16 | 168.21 | 166.03 | 164.03 | 154.05 | 143.42 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| COUNCIL GROVE LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 6.07 | 5.05 | 3.39 | 2.83 | 4.43 | 8.31 | 12.31 | 16.51 | 15.82 | 11.98 | 4.84 | 6.90 | 98.4 |
| FY 2000 | 0.17 | 1.03 | 1.19 | 0.20 | 1.04 | 3.61 | 1.83 | 1.97 | 6.43 | 1.12 | 0.31 | 0.53 | 19.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 5.17 | 6.16 | 4.40 | 2.50 | 3.74 | 8.66 | 12.45 | 17.29 | 15.52 | 11.19 | 5.72 | 2.28 | 95.1 |
| FY 2000 | 0.49 | 0.24 | 0.23 | 4.95 | 1.69 | 3.69 | 0.24 | 0.23 | 0.41 | 1.22 | 2.15 | 2.17 | 17.7 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.43 | 1.69 | 1.10 | 0.81 | 0.87 | 2.01 | 3.06 | 4.58 | 4.82 | 3.96 | 3.62 | 3.59 | 32.54 |
| FY 2000 | 0.06 | 2.01 | 1.06 | 0.18 | 1.77 | 2.88 | 1.46 | 2.38 | 3.78 | 1.05 | 0.15 | 0.48 | 17.26 |
| DEVIATION | -2.37 | 0.32 | -0.04 | -0.63 | 0.90 | 0.87 | -1.60 | -2.20 | -1.04 | -2.91 | -3.47 | -3.11 | -15.28 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1271.24 | 1271.26 | 1271.61 | 1269.75 | 1269.50 | 1269.14 | 1269.49 | 1269.77 | 1271.48 | 1270.96 | 1269.82 | 1268.81 | |
| MAXIMUM | 1271.60 | 1271.36 | 1271.67 | 1271.69 | 1270.03 | 1269.96 | 1269.49 | 1269.81 | 1271.50 | 1271.49 | 1270.96 | 1269.82 | |
| MINIMUM | 1271.21 | 1271.08 | 1271.21 | 1269.75 | 1269.45 | 1269.13 | 1269.09 | 1269.49 | 1269.69 | 1270.96 | 1269.82 | 1268.81 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 40.03 | 40.09 | 41.14 | 35.76 | 35.07 | 34.09 | 35.05 | 35.81 | 40.75 | 39.19 | 35.95 | 33.20 | |
| CANTON LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 15.72 | 6.52 | 4.88 | 5.21 | 6.63 | 10.57 | 14.18 | 32.16 | 32.88 | 14.10 | 8.93 | 10.17 | 162.0 |
| FY 2000 | 2.63 | 0.15 | 5.51 | 7.24 | 13.84 | 33.36 | 17.34 | 19.34 | 18.67 | 9.42 | 1.04 | 0.06 | 128.6 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 4.85 | 5.10 | 6.24 | 5.53 | 6.13 | 7.94 | 13.41 | 11.22 | 16.42 | 8.97 | 6.45 | 6.45 | 98.7 |
| FY 2000 | 0.55 | 0.18 | 19.71 | 1.57 | 4.18 | 16.77 | 28.12 | 10.80 | 14.44 | 9.10 | 1.52 | 1.05 | 108.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 1.44 | 0.94 | 0.63 | 0.51 | 0.70 | 1.20 | 1.63 | 3.25 | 2.87 | 2.56 | 2.47 | 1.89 | 20.11 |
| FY 2000 | 1.12 | 0.08 | 0.91 | 0.19 | 0.39 | 4.61 | 1.41 | 2.33 | 4.26 | 1.68 | 0.51 | 0.04 | 17.53 |
| DEVIATION | -0.32 | -0.86 | 0.28 | -0.32 | -0.31 | 3.41 | -0.22 | -0.92 | 1.39 | -0.88 | -1.96 | -1.85 | -2.58 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1614.97 | 1615.31 | 1613.36 | 1614.47 | 1615.47 | 1617.22 | 1615.62 | 1615.82 | 1616.01 | 1615.58 | 1614.64 | 1613.59 | |
| MAXIMUM | 1615.00 | 1615.33 | 1615.64 | 1614.47 | 1615.64 | 1617.41 | 1617.48 | 1615.84 | 1616.05 | 1616.01 | 1615.58 | 1614.64 | |
| MINIMUM | 1614.76 | 1614.90 | 1613.05 | 1613.33 | 1614.47 | 1615.35 | 1615.55 | 1615.41 | 1615.45 | 1615.33 | 1614.64 | 1613.59 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 107.95 | 110.64 | 95.82 | 104.13 | 111.91 | 126.29 | 113.10 | 114.69 | 116.20 | 112.78 | 105.43 | 97.52 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| COPAN LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1936 THRU 2000 | 18.73 | 16.56 | 11.17 | 9.48 | 13.17 | 29.53 | 34.01 | 43.10 | 36.62 | 16.55 | 3.78 | 10.36 | 243.1 |
| FY 2000 | 0.00 | 0.21 | 14.05 | 0.90 | 11.40 | 61.17 | 18.30 | 49.62 | 72.60 | 5.23 | 0.00 | 0.00 | 233.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1984 THRU 2000 | 34.85 | 21.38 | 23.39 | 19.11 | 15.13 | 48.76 | 47.73 | 51.58 | 56.11 | 36.66 | 4.32 | 3.64 | 362.7 |
| FY 2000 | 0.31 | 0.30 | 7.71 | 0.29 | 5.51 | 63.83 | 17.84 | 44.13 | 32.81 | 40.77 | 0.49 | 0.34 | 214.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.10 | 2.39 | 1.43 | 1.19 | 1.31 | 2.50 | 3.48 | 4.93 | 4.83 | 3.28 | 3.02 | 3.89 | 35.33 |
| FY 2000 | 1.02 | 0.44 | 3.62 | 0.30 | 2.14 | 3.41 | 1.07 | 3.92 | 7.56 | 2.96 | 0.03 | 1.11 | 27.58 |
| DEVIATION | -2.08 | -1.95 | 2.19 | -0.89 | 0.83 | 0.91 | -2.41 | -1.01 | 2.73 | -0.32 | -2.99 | -2.78 | -7.75 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 709.14 | 708.79 | 710.02 | 710.00 | 710.97 | 710.27 | 710.12 | 710.22 | 716.67 | 710.11 | 709.23 | 708.44 | |
| MAXIMUM | 709.60 | 709.19 | 711.09 | 710.11 | 711.26 | 711.98 | 710.82 | 715.46 | 717.89 | 716.67 | 710.11 | 709.23 | |
| MINIMUM | 708.92 | 708.76 | 708.72 | 709.92 | 709.89 | 710.17 | 709.98 | 710.06 | 709.92 | 710.11 | 709.20 | 708.39 | |
| POOL CONTENT-EOM (1000AC.FT) | 39.37 | 37.79 | 43.52 | 43.42 | 48.26 | 44.76 | 44.02 | 44.51 | 82.02 | 43.96 | 39.80 | 36.24 | |
| ELK CITY LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 22.66 | 21.83 | 12.82 | 10.99 | 14.32 | 31.60 | 44.34 | 45.14 | 46.52 | 19.46 | 6.11 | 15.13 | 290.9 |
| FY 2000 | 1.30 | 1.53 | 22.30 | 4.11 | 25.47 | 69.07 | 14.87 | 24.82 | 100.50 | 8.38 | 0.58 | 0.10 | 273.0 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 28.22 | 23.61 | 18.33 | 21.34 | 17.97 | 43.68 | 37.36 | 41.68 | 54.09 | 40.73 | 8.97 | 5.63 | 341.6 |
| FY 2000 | 1.29 | 1.25 | 11.93 | 17.07 | 16.68 | 73.57 | 12.04 | 22.12 | 39.25 | 64.78 | 2.39 | 0.87 | 263.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.84 | 2.32 | 1.37 | 1.09 | 1.20 | 2.33 | 3.41 | 4.73 | 5.03 | 3.49 | 3.16 | 4.13 | 35.10 |
| FY 2000 | 1.33 | 0.77 | 2.72 | 0.16 | 2.31 | 3.71 | 1.28 | 3.72 | 10.20 | 3.01 | 0.02 | 1.15 | 30.38 |
| DEVIATION | -1.51 | -1.55 | 1.35 | -0.93 | 1.11 | 1.38 | -2.13 | -1.01 | 5.17 | -0.48 | -3.14 | -2.98 | -4.72 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 793.39 | 793.22 | 796.10 | 792.84 | 795.04 | 793.80 | 794.27 | 794.24 | 805.78 | 794.55 | 793.36 | 792.63 | |
| MAXIMUM | 793.75 | 793.39 | 797.59 | 796.31 | 795.87 | 797.51 | 794.55 | 796.36 | 807.21 | 805.78 | 794.55 | 793.36 | |
| MINIMUM | 793.28 | 793.13 | 793.21 | 792.84 | 792.01 | 792.04 | 793.80 | 794.10 | 793.90 | 794.11 | 793.36 | 792.63 | |
| POOL CONTENT-EOM (1000AC.FT) | 33.55 | 32.93 | 43.93 | 31.56 | 39.71 | 35.06 | 36.80 | 36.69 | 96.36 | 37.86 | 33.44 | 30.81 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| EL DORADO LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 5.65 | 5.57 | 3.41 | 2.71 | 3.88 | 7.90 | 11.80 | 12.76 | 14.39 | 7.41 | 3.76 | 4.45 | 83.7 |
| FY 2000 | 0.10 | 0.84 | 18.47 | 1.03 | 20.47 | 16.13 | 3.79 | 2.07 | 11.50 | 4.28 | 0.14 | 0.00 | 78.8 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1983 THRU 2000 | 6.12 | 7.54 | 5.15 | 3.59 | 4.45 | 6.82 | 9.74 | 12.47 | 12.88 | 6.45 | 2.81 | 1.01 | 79.0 |
| FY 2000 | 1.55 | 0.30 | 13.24 | 0.29 | 11.69 | 21.20 | 0.98 | 0.46 | 2.45 | 3.65 | 0.76 | 0.68 | 57.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.56 | 1.77 | 1.11 | 0.83 | 0.99 | 1.94 | 2.83 | 4.18 | 4.73 | 3.62 | 3.17 | 3.49 | 31.23 |
| FY 2000 | 1.06 | 0.85 | 2.55 | 0.13 | 3.19 | 3.23 | 0.77 | 2.48 | 9.25 | 4.25 | 0.83 | 1.07 | 29.66 |
| DEVIATION | -1.50 | -0.92 | 1.44 | -0.70 | 2.20 | 1.29 | -2.06 | -1.70 | 4.52 | 0.63 | -2.34 | -2.42 | -1.57 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1338.71 | 1338.52 | 1339.10 | 1339.05 | 1339.98 | 1339.07 | 1339.00 | 1338.80 | 1339.49 | 1339.03 | 1338.12 | 1337.32 | |
| MAXIMUM | 1339.20 | 1338.72 | 1340.21 | 1339.14 | 1340.66 | 1339.98 | 1339.15 | 1339.01 | 1339.70 | 1339.49 | 1339.03 | 1338.12 | |
| MINIMUM | 1338.60 | 1338.45 | 1338.45 | 1339.00 | 1339.00 | 1338.89 | 1338.97 | 1338.80 | 1338.51 | 1338.71 | 1338.12 | 1337.30 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 154.72 | 153.22 | 157.81 | 157.40 | 164.97 | 157.56 | 156.99 | 155.42 | 160.98 | 157.24 | 150.08 | 143.98 | |
| | | | | | | | | | | | | | |
| EUFULA LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 338.02 | 282.47 | 281.31 | 243.45 | 313.43 | 469.58 | 572.97 | 847.71 | 606.37 | 237.94 | 134.67 | 212.37 | 4540.3 |
| FY 2000 | 35.80 | 25.79 | 143.11 | 92.23 | 183.37 | 343.96 | 252.52 | 760.47 | 766.97 | 268.96 | 12.89 | 23.41 | 2909.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 149.53 | 272.35 | 348.80 | 379.59 | 311.23 | 545.08 | 531.37 | 776.08 | 615.51 | 298.17 | 199.47 | 147.17 | 4574.3 |
| FY 2000 | 90.39 | 66.53 | 23.73 | 79.32 | 74.26 | 46.23 | 321.86 | 633.98 | 350.00 | 562.12 | 259.09 | 149.87 | 2657.4 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.34 | 2.73 | 2.06 | 1.66 | 2.05 | 2.96 | 3.87 | 5.52 | 4.43 | 2.97 | 2.86 | 4.16 | 38.61 |
| FY 2000 | 1.13 | 1.31 | 3.40 | 1.54 | 1.76 | 2.41 | 2.51 | 6.72 | 7.89 | 3.81 | 0.33 | 1.95 | 34.76 |
| DEVIATION | -2.21 | -1.42 | 1.34 | -0.12 | -0.29 | -0.55 | -1.36 | 1.20 | 3.46 | 0.84 | -2.53 | -2.21 | -3.85 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 582.25 | 581.57 | 582.87 | 582.94 | 583.80 | 586.33 | 585.34 | 586.06 | 589.37 | 586.20 | 583.03 | 580.80 | |
| MAXIMUM | 583.30 | 582.25 | 582.95 | 583.24 | 583.94 | 586.33 | 586.33 | 588.05 | 589.37 | 589.45 | 586.20 | 583.03 | |
| MINIMUM | 581.98 | 581.10 | 581.52 | 582.82 | 582.50 | 583.76 | 585.15 | 585.34 | 585.87 | 586.08 | 583.03 | 580.80 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 2038.91 | 1975.48 | 2098.28 | 2104.98 | 2190.76 | 2458.48 | 2351.06 | 2428.53 | 2808.37 | 2444.06 | 2113.73 | 1905.49 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| FALL RIVER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 16.55 | 18.42 | 11.90 | 9.73 | 13.17 | 27.21 | 37.19 | 36.50 | 38.63 | 16.16 | 6.89 | 12.90 | 245.3 |
| FY 2000 | 5.85 | 6.33 | 50.04 | 4.78 | 38.56 | 68.58 | 12.89 | 3.73 | 82.64 | 9.16 | 0.62 | 0.00 | 283.2 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 15.40 | 20.73 | 19.47 | 11.72 | 14.31 | 34.43 | 36.93 | 34.20 | 38.77 | 26.91 | 7.16 | 5.58 | 265.6 |
| FY 2000 | 19.59 | 4.44 | 49.63 | 7.80 | 19.86 | 83.91 | 14.17 | 2.08 | 20.24 | 69.59 | 0.56 | 0.56 | 292.4 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.49 | 2.94 | 3.25 | 2.16 | 1.65 | 1.48 | 1.49 | 1.99 | 2.85 | 3.20 | 4.21 | 4.32 | 33.03 |
| FY 2000 | 1.42 | 1.71 | 2.90 | 0.07 | 2.51 | 3.35 | 1.27 | 1.69 | 7.28 | 2.26 | 0.22 | 0.71 | 25.39 |
| DEVIATION | -2.07 | -1.23 | -0.35 | -2.09 | 0.86 | 1.87 | -0.22 | -0.30 | 4.43 | -0.94 | -3.99 | -3.61 | -7.64 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 949.15 | 949.61 | 949.68 | 948.48 | 954.74 | 949.36 | 948.47 | 948.88 | 964.73 | 948.63 | 948.03 | 947.16 | |
| MAXIMUM | 954.10 | 949.81 | 956.24 | 949.74 | 955.98 | 955.18 | 949.36 | 948.98 | 966.29 | 964.73 | 948.63 | 948.03 | |
| MINIMUM | 948.55 | 948.58 | 949.50 | 948.43 | 948.48 | 948.55 | 948.34 | 948.47 | 948.41 | 948.63 | 948.03 | 947.14 | |
| POOL CONTENT-EOM (1000AC.FT) | 24.17 | 25.33 | 25.50 | 22.58 | 40.75 | 24.70 | 22.56 | 23.51 | 84.69 | 22.93 | 21.53 | 19.67 | |
| FORT SUPPLY LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 5.11 | 3.09 | 2.72 | 2.18 | 2.37 | 3.42 | 4.80 | 10.53 | 9.53 | 3.66 | 3.04 | 3.22 | 53.7 |
| FY 2000 | 0.33 | 0.54 | 0.62 | 0.85 | 1.84 | 6.40 | 8.87 | 4.78 | 4.73 | 1.91 | 0.35 | 0.15 | 31.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1.71 | 1.62 | 1.75 | 2.24 | 2.44 | 3.60 | 4.09 | 6.96 | 3.77 | 0.85 | 0.67 | 0.93 | 30.6 |
| FY 2000 | 0.36 | 0.63 | 1.20 | 0.77 | 1.59 | 5.41 | 8.85 | 2.69 | 5.19 | 0.65 | 0.00 | 0.00 | 27.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 1.54 | 0.93 | 0.68 | 0.53 | 0.74 | 1.24 | 1.73 | 3.43 | 3.08 | 2.43 | 2.46 | 1.93 | 20.70 |
| FY 2000 | 0.47 | 0.08 | 1.06 | 0.14 | 0.71 | 4.33 | 1.58 | 3.02 | 5.29 | 1.53 | 0.16 | 0.02 | 18.39 |
| DEVIATION | -1.07 | -0.85 | 0.38 | -0.39 | -0.03 | 3.09 | -0.15 | -0.41 | 2.21 | -0.90 | -2.30 | -1.91 | -2.31 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 2004.09 | 2004.18 | 2004.17 | 2004.19 | 2004.37 | 2004.59 | 2004.37 | 2004.79 | 2004.09 | 2004.13 | 2003.64 | 2003.11 | |
| MAXIMUM | 2004.21 | 2004.34 | 2004.24 | 2004.34 | 2004.51 | 2004.98 | 2004.59 | 2005.11 | 2005.16 | 2004.39 | 2004.14 | 2003.64 | |
| MINIMUM | 2003.84 | 2003.94 | 2003.96 | 2003.92 | 2003.96 | 2003.95 | 2004.09 | 2003.82 | 2004.06 | 2003.77 | 2003.64 | 2003.09 | |
| POOL CONTENT-EOM (1000AC.FT) | 12.45 | 12.62 | 12.60 | 12.64 | 12.98 | 13.39 | 12.98 | 13.76 | 12.45 | 12.53 | 11.67 | 10.76 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| FORT GIBSON LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 418.47 | 453.14 | 405.29 | 363.83 | 399.78 | 645.39 | 851.09 | 921.34 | 884.61 | 510.95 | 257.79 | 313.41 | 6425.1 |
| FY 2000 | 58.49 | 17.26 | 420.11 | 115.34 | 183.28 | 674.59 | 225.03 | 757.96 | 1197.44 | 591.28 | 198.55 | 40.82 | 4480.1 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 438.76 | 546.71 | 581.95 | 467.74 | 414.89 | 834.84 | 955.32 | 887.93 | 834.05 | 627.19 | 268.21 | 237.91 | 7095.5 |
| FY 2000 | 77.09 | 2.47 | 371.80 | 154.61 | 173.36 | 640.46 | 236.74 | 757.31 | 948.03 | 803.50 | 223.21 | 42.34 | 4430.9 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.61 | 3.20 | 2.29 | 1.96 | 2.25 | 3.21 | 4.17 | 5.29 | 4.93 | 3.07 | 3.17 | 4.45 | 41.60 |
| FY 2000 | 1.22 | 7.73 | 4.29 | 1.02 | 2.49 | 4.00 | 2.07 | 7.05 | 11.47 | 3.86 | 0.01 | 2.01 | 47.22 |
| DEVIATION | -2.39 | 4.53 | 2.00 | -0.94 | 0.24 | 0.79 | -2.10 | 1.76 | 6.54 | 0.79 | -3.16 | -2.44 | 5.62 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 552.96 | 553.59 | 555.88 | 553.71 | 554.24 | 555.75 | 554.87 | 554.18 | 564.57 | 555.17 | 553.29 | 552.73 | |
| MAXIMUM | 555.42 | 553.64 | 558.30 | 556.09 | 555.04 | 556.16 | 555.78 | 562.32 | 566.97 | 565.50 | 556.14 | 553.40 | |
| MINIMUM | 552.66 | 552.88 | 553.58 | 553.71 | 553.02 | 553.90 | 553.30 | 454.40 | 553.39 | 553.90 | 553.29 | 552.45 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 345.78 | 357.53 | 402.10 | 359.78 | 369.83 | 399.50 | 381.99 | 368.67 | 610.15 | 387.90 | 351.92 | 341.64 | |
| GREAT SALT PLAINS | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 25.33 | 20.76 | 13.01 | 12.54 | 16.31 | 32.98 | 41.34 | 62.89 | 54.36 | 29.17 | 26.00 | 21.42 | 356.1 |
| FY 2000 | 15.43 | 18.55 | 38.14 | 25.29 | 31.93 | 320.18 | 107.21 | 123.02 | 65.75 | 44.68 | 11.06 | 2.26 | 803.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 28.79 | 40.15 | 22.97 | 18.40 | 21.08 | 51.51 | 59.84 | 75.28 | 72.50 | 42.25 | 31.14 | 21.13 | 485.0 |
| FY 2000 | 13.29 | 15.79 | 35.62 | 23.72 | 30.93 | 244.67 | 181.26 | 85.59 | 89.42 | 44.22 | 11.01 | 1.44 | 777.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 1.92 | 1.26 | 0.94 | 0.67 | 0.88 | 1.59 | 2.28 | 3.63 | 3.68 | 2.66 | 3.06 | 2.41 | 24.99 |
| FY 2000 | 0.39 | 0.30 | 1.74 | 0.13 | 1.20 | 7.21 | 1.24 | 4.78 | 7.04 | 2.67 | 0.13 | 0.26 | 27.09 |
| DEVIATION | -1.53 | -0.96 | 0.80 | -0.54 | 0.32 | 5.62 | -1.04 | 1.15 | 3.36 | 0.01 | -2.93 | -2.15 | 2.10 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1125.41 | 1125.47 | 1125.55 | 1125.61 | 1125.95 | 1131.40 | 1125.86 | 1128.85 | 1126.45 | 1125.74 | 1124.89 | 1124.11 | |
| MAXIMUM | 1125.58 | 1125.66 | 1126.21 | 1125.87 | 1126.46 | 1133.49 | 1131.40 | 1129.98 | 1128.85 | 1126.52 | 1125.75 | 1124.92 | |
| MINIMUM | 1125.12 | 1125.04 | 1125.38 | 1125.27 | 1125.48 | 1125.37 | 1125.59 | 1125.28 | 1125.48 | 1125.09 | 1124.89 | 1123.96 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 35.22 | 35.78 | 36.52 | 37.08 | 40.24 | 113.08 | 39.40 | 74.02 | 45.42 | 38.29 | 30.52 | 24.18 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HEYBURN LAKE | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1929 THRU 2000 | 2.96 | 3.38 | 2.71 | 1.82 | 3.14 | 5.50 | 7.64 | 9.57 | 8.14 | 2.11 | 1.40 | 3.15 | 51.5 |
| FY 2000 | 0.12 | 0.29 | 3.52 | 0.35 | 0.97 | 11.09 | 1.32 | 25.25 | 11.54 | 1.23 | 0.10 | 0.00 | 55.8 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 3.08 | 4.14 | 3.97 | 2.69 | 4.35 | 9.42 | 8.01 | 13.76 | 7.34 | 1.06 | 0.66 | 0.69 | 59.2 |
| FY 2000 | 0.10 | 0.03 | 3.25 | 0.46 | 0.77 | 10.58 | 0.59 | 24.76 | 10.74 | 1.50 | 0.10 | 0.00 | 52.9 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.23 | 2.52 | 1.73 | 1.49 | 1.59 | 2.71 | 3.61 | 5.04 | 4.15 | 3.00 | 2.88 | 4.01 | 35.97 |
| FY 2000 | 0.62 | 1.65 | 4.31 | 0.41 | 1.51 | 3.01 | 0.89 | 11.95 | 7.89 | 2.88 | 0.00 | 0.54 | 35.66 |
| DEVIATION | -2.61 | -0.87 | 2.58 | -1.08 | -0.08 | 0.30 | -2.72 | 6.91 | 3.74 | -0.12 | -2.88 | -3.47 | -0.31 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 761.49 | 761.49 | 761.65 | 761.52 | 761.51 | 761.90 | 762.34 | 762.24 | 762.71 | 761.76 | 760.83 | 759.97 | |
| MAXIMUM | 761.75 | 761.61 | 763.53 | 761.68 | 761.87 | 762.86 | 762.34 | 771.78 | 766.10 | 762.71 | 761.76 | 760.83 | |
| MINIMUM | 761.21 | 761.42 | 761.47 | 761.37 | 761.26 | 761.26 | 761.58 | 761.72 | 761.69 | 761.50 | 760.83 | 759.97 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 7.10 | 7.10 | 7.24 | 7.13 | 7.12 | 7.46 | 7.88 | 7.78 | 8.24 | 7.34 | 6.54 | 5.86 | |
| | | | | | | | | | | | | | |
| HULAH LAKE | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1918 THRU 2000 | 30.38 | 25.07 | 14.39 | 11.67 | 14.43 | 33.02 | 44.52 | 52.33 | 43.39 | 27.09 | 10.90 | 24.24 | 331.4 |
| FY 2000 | 2.36 | 2.37 | 39.12 | 4.36 | 24.84 | 112.46 | 36.50 | 51.00 | 66.38 | 7.91 | 0.40 | 0.21 | 347.9 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 29.75 | 27.07 | 23.91 | 19.13 | 16.48 | 52.44 | 49.64 | 54.91 | 57.56 | 38.69 | 5.74 | 7.41 | 382.7 |
| FY 2000 | 1.23 | 1.19 | 35.26 | 3.78 | 14.76 | 106.66 | 37.61 | 46.38 | 20.62 | 48.27 | 1.60 | 1.25 | 318.6 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.91 | 2.28 | 1.36 | 1.15 | 1.24 | 2.30 | 3.36 | 4.95 | 4.60 | 3.27 | 3.18 | 4.03 | 34.62 |
| FY 2000 | 0.99 | 0.38 | 2.95 | 0.20 | 1.74 | 2.71 | 1.32 | 4.56 | 6.50 | 2.16 | 0.13 | 0.90 | 24.54 |
| DEVIATION | -1.92 | -1.90 | 1.59 | -0.95 | 0.50 | 0.41 | -2.04 | -0.39 | 1.90 | -1.11 | -3.05 | -3.13 | -10.08 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 733.07 | 732.85 | 733.59 | 733.51 | 735.70 | 733.94 | 733.30 | 733.27 | 742.58 | 733.36 | 732.19 | 730.97 | |
| MAXIMUM | 733.28 | 733.10 | 736.65 | 733.71 | 736.80 | 736.62 | 735.49 | 741.85 | 743.47 | 742.58 | 733.36 | 732.19 | |
| MINIMUM | 732.87 | 732.85 | 732.82 | 732.97 | 733.03 | 733.03 | 732.69 | 728.77 | 733.09 | 733.35 | 732.19 | 730.97 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 31.41 | 30.64 | 33.33 | 33.03 | 41.58 | 34.61 | 32.26 | 32.15 | 75.74 | 32.48 | 28.36 | 24.37 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| JOHN REDMOND DAM | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 79.04 | 68.14 | 45.72 | 38.17 | 49.27 | 99.71 | 140.59 | 161.16 | 168.09 | 121.99 | 46.70 | 65.45 | 1084.0 |
| FY 2000 | 15.27 | 13.88 | 79.36 | 24.50 | 73.49 | 119.90 | 46.91 | 34.71 | 42.25 | 8.84 | 1.96 | 2.04 | 463.1 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 67.63 | 82.24 | 69.89 | 40.74 | 51.10 | 114.20 | 144.99 | 162.06 | 188.99 | 127.84 | 75.96 | 38.14 | 1163.8 |
| FY 2000 | 11.67 | 1.43 | 61.47 | 22.73 | 44.01 | 147.36 | 46.24 | 31.05 | 37.26 | 11.01 | 7.69 | 5.26 | 427.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.49 | 1.76 | 1.16 | 0.83 | 0.89 | 2.06 | 2.91 | 4.39 | 4.74 | 3.87 | 3.52 | 3.71 | 32.32 |
| FY 2000 | 0.56 | 1.36 | 1.97 | 0.12 | 2.13 | 2.47 | 1.10 | 2.53 | 6.85 | 2.27 | 0.34 | 1.20 | 22.90 |
| DEVIATION | -1.93 | -0.40 | 0.81 | -0.71 | 1.24 | 0.41 | -1.81 | -1.86 | 2.11 | -1.60 | -3.18 | -2.51 | -9.42 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1036.36 | 1037.28 | 1039.05 | 1039.12 | 1041.95 | 1039.15 | 1039.27 | 1039.58 | 1039.74 | 1039.01 | 1037.62 | 1036.26 | |
| MAXIMUM | 1036.81 | 1037.28 | 1041.39 | 1039.43 | 1042.47 | 1041.95 | 1039.40 | 1040.13 | 1040.05 | 1039.92 | 1039.02 | 1037.62 | |
| MINIMUM | 1036.02 | 1036.35 | 1037.23 | 1038.93 | 1038.95 | 1038.74 | 1038.90 | 1038.94 | 1038.96 | 1038.97 | 1037.62 | 1036.22 | |
| POOL CONTENT-EOM (1000AC.FT) | 36.03 | 43.01 | 58.32 | 59.00 | 87.15 | 59.29 | 60.45 | 63.45 | 65.00 | 57.94 | 45.78 | 35.29 | |
| KAW LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 166.35 | 147.31 | 103.04 | 89.38 | 111.74 | 210.14 | 263.58 | 327.26 | 359.72 | 241.44 | 140.45 | 136.69 | 2297.1 |
| FY 2000 | 123.67 | 81.42 | 348.01 | 87.87 | 250.46 | 753.43 | 249.13 | 182.09 | 443.01 | 123.18 | 53.00 | 27.07 | 2722.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1977 THRU 2000 | 149.60 | 175.22 | 125.00 | 143.62 | 121.98 | 246.55 | 300.82 | 295.51 | 376.34 | 298.41 | 145.58 | 122.54 | 2501.2 |
| FY 2000 | 97.15 | 66.77 | 298.31 | 201.38 | 165.71 | 615.34 | 415.75 | 117.35 | 202.85 | 430.96 | 51.39 | 15.05 | 2678.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.36 | 1.75 | 1.06 | 0.80 | 1.00 | 1.94 | 2.72 | 4.22 | 4.43 | 3.46 | 3.18 | 3.33 | 30.24 |
| FY 2000 | 0.83 | 1.23 | 3.99 | 0.25 | 2.72 | 5.00 | 1.48 | 4.37 | 8.85 | 3.98 | 0.08 | 0.92 | 33.70 |
| DEVIATION | -1.53 | -0.52 | 2.93 | -0.55 | 1.72 | 3.06 | -1.24 | 0.15 | 4.42 | 0.52 | -3.10 | -2.41 | 3.46 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1010.93 | 1011.42 | 1014.04 | 1007.71 | 1012.57 | 1018.95 | 1010.08 | 1013.73 | 1024.40 | 1008.75 | 1008.31 | 1008.56 | |
| MAXIMUM | 1010.93 | 1011.58 | 1020.02 | 1014.21 | 1013.79 | 1019.63 | 1018.95 | 1013.73 | 1024.47 | 1024.40 | 1008.75 | 1008.57 | |
| MINIMUM | 1008.50 | 1010.91 | 1011.39 | 1007.57 | 1007.43 | 1007.52 | 1009.77 | 1009.95 | 1013.44 | 1008.75 | 1008.12 | 1008.17 | |
| POOL CONTENT-EOM (1000AC.FT) | 422.42 | 431.07 | 479.62 | 369.21 | 451.91 | 579.61 | 407.91 | 473.71 | 704.48 | 385.90 | 378.78 | 382.82 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| KEYSTONE LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|--------|--------|--------|--------|--------|---------|---------|--------|---------|---------|--------|--------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1940 THRU 2000 | 467.99 | 391.82 | 335.97 | 229.43 | 280.54 | 526.50 | 651.39 | 895.68 | 784.52 | 596.52 | 342.87 | 323.73 | 5826.9 |
| FY 2000 | 227.80 | 164.33 | 775.55 | 279.28 | 288.52 | 1835.57 | 992.15 | 724.37 | 882.06 | 729.93 | 162.01 | 29.95 | 7091.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 430.93 | 397.11 | 303.79 | 301.87 | 293.91 | 657.91 | 729.23 | 889.75 | 878.92 | 643.18 | 383.65 | 280.31 | 6190.6 |
| FY 2000 | 231.07 | 90.40 | 776.06 | 335.00 | 261.10 | 1680.81 | 1115.69 | 645.48 | 603.58 | 1038.99 | 270.22 | 105.82 | 7154.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.51 | 2.43 | 2.19 | 0.94 | 1.15 | 2.03 | 2.89 | 4.36 | 4.17 | 3.06 | 3.00 | 3.34 | 33.07 |
| FY 2000 | 1.52 | 1.32 | 3.73 | 1.42 | 2.11 | 4.77 | 1.73 | 4.83 | 5.94 | 4.14 | 0.99 | 0.16 | 32.66 |
| DEVIATION | -1.99 | -1.11 | 1.54 | 0.48 | 0.96 | 2.74 | -1.16 | 0.47 | 1.77 | 1.08 | -2.01 | -3.18 | -0.41 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 723.60 | 726.37 | 725.90 | 723.00 | 723.79 | 729.45 | 724.45 | 727.17 | 735.82 | 725.18 | 719.57 | 714.56 | |
| MAXIMUM | 724.92 | 726.58 | 731.91 | 725.98 | 724.15 | 732.14 | 729.45 | 728.52 | 735.98 | 735.96 | 725.18 | 719.61 | |
| MINIMUM | 722.90 | 723.60 | 725.80 | 723.00 | 722.12 | 722.92 | 722.68 | 724.00 | 724.01 | 725.18 | 719.57 | 714.54 | |
| POOL CONTENT-EOM (1000AC.FT) | 519.21 | 587.08 | 575.00 | 505.38 | 523.59 | 671.63 | 539.29 | 607.98 | 876.15 | 557.04 | 434.42 | 346.56 | |
| LAKE HUDSON | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 390.98 | 399.36 | 366.13 | 330.36 | 370.57 | 587.50 | 768.51 | 847.30 | 815.26 | 479.88 | 247.57 | 289.45 | 5892.9 |
| FY 2000 | 58.51 | 16.46 | 397.00 | 106.02 | 161.36 | 577.20 | 209.76 | 629.56 | 1068.91 | 550.72 | 219.28 | 19.80 | 4014.6 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 380.19 | 527.96 | 530.58 | 406.55 | 412.16 | 767.71 | 883.57 | 836.92 | 779.53 | 558.45 | 279.84 | 257.36 | 6620.8 |
| FY 2000 | 56.49 | 10.23 | 390.32 | 105.35 | 153.43 | 575.53 | 204.26 | 633.71 | 1002.08 | 574.13 | 210.45 | 32.52 | 3948.5 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.68 | 3.22 | 2.27 | 1.91 | 2.04 | 3.22 | 4.14 | 5.22 | 4.96 | 3.02 | 3.26 | 4.61 | 41.54 |
| FY 2000 | 1.53 | 3.54 | 4.83 | 0.85 | 2.23 | 4.30 | 2.16 | 9.78 | 9.10 | 4.77 | 0.01 | 2.07 | 45.17 |
| DEVIATION | -2.15 | 0.32 | 2.56 | -1.06 | 0.19 | 1.08 | -1.98 | 4.56 | 4.14 | 1.75 | -3.25 | -2.54 | 3.63 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 618.66 | 619.09 | 619.11 | 618.93 | 619.02 | 618.91 | 619.06 | 619.61 | 624.69 | 621.69 | 621.85 | 618.37 | |
| MAXIMUM | 619.51 | 619.09 | 619.90 | 619.27 | 619.17 | 619.09 | 619.11 | 624.84 | 626.80 | 624.80 | 622.84 | 621.85 | |
| MINIMUM | 618.48 | 617.85 | 618.55 | 618.62 | 618.53 | 618.68 | 618.71 | 618.79 | 619.04 | 620.75 | 619.64 | 618.24 | |
| POOL CONTENT-EOM (1000AC.FT) | 196.66 | 201.30 | 201.52 | 199.55 | 200.52 | 199.34 | 200.96 | 207.04 | 267.97 | 230.85 | 232.73 | 193.55 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| MARION LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1939 THRU 2000 | 4.29 | 3.38 | 2.33 | 2.45 | 3.32 | 6.60 | 7.84 | 10.98 | 10.04 | 7.73 | 2.77 | 4.71 | 66.5 |
| FY 2000 | 0.08 | 3.23 | 2.98 | 0.00 | 7.01 | 15.15 | 3.77 | 2.56 | 3.83 | 1.48 | 0.00 | 0.83 | 40.9 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 3.00 | 3.69 | 3.54 | 1.36 | 3.31 | 4.75 | 6.34 | 8.78 | 7.62 | 7.83 | 2.92 | 1.52 | 54.7 |
| FY 2000 | 0.55 | 0.13 | 0.12 | 0.12 | 6.50 | 13.33 | 1.45 | 1.46 | 0.55 | 0.79 | 0.77 | 0.58 | 26.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.44 | 1.61 | 0.98 | 0.75 | 0.94 | 1.90 | 2.74 | 4.43 | 4.58 | 3.70 | 3.32 | 3.40 | 30.78 |
| FY 2000 | 0.01 | 1.83 | 1.54 | 0.10 | 2.58 | 3.58 | 0.64 | 0.82 | 1.24 | 0.86 | 0.06 | 0.24 | 13.50 |
| DEVIATION | -2.43 | 0.22 | 0.56 | -0.65 | 1.64 | 1.68 | -2.10 | -3.61 | -3.34 | -2.84 | -3.26 | -3.16 | -17.28 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1349.86 | 1350.02 | 1350.55 | 1350.39 | 1350.54 | 1350.58 | 1350.62 | 1350.30 | 1350.35 | 1349.81 | 1348.94 | 1348.17 | |
| MAXIMUM | 1350.34 | 1350.09 | 1350.62 | 1350.68 | 1350.95 | 1351.37 | 1350.78 | 1350.65 | 1350.40 | 1350.35 | 1349.81 | 1348.94 | |
| MINIMUM | 1349.80 | 1349.77 | 1349.96 | 1350.26 | 1350.36 | 1350.49 | 1350.48 | 1350.17 | 1350.00 | 1349.80 | 1348.91 | 1348.17 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 76.65 | 77.61 | 80.90 | 79.91 | 80.84 | 81.09 | 81.33 | 79.35 | 79.66 | 76.35 | 71.15 | 66.68 | |
| LAKE MEREDITH | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 17.98 | 3.64 | 2.07 | 3.30 | 2.66 | 3.65 | 10.74 | 31.26 | 34.42 | 33.05 | 31.43 | 26.74 | 200.9 |
| FY 2000 | 2.04 | 0.60 | 0.29 | 1.07 | 5.75 | 28.44 | 12.99 | 4.76 | 7.90 | 8.77 | 1.97 | 0.60 | 75.2 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 1.25 | 0.58 | 0.49 | 0.51 | 0.50 | 0.73 | 1.13 | 2.38 | 2.36 | 2.73 | 2.60 | 1.77 | 17.04 |
| FY 2000 | 1.08 | 0.01 | 1.59 | 0.06 | 0.06 | 2.94 | 0.67 | 0.52 | 3.52 | 1.81 | 0.54 | 0.08 | 12.88 |
| DEVIATION | -0.17 | -0.57 | 1.10 | -0.45 | -0.44 | 2.21 | -0.46 | -1.86 | 1.16 | -0.92 | -2.06 | -1.69 | -4.16 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 2907.00 | 2905.90 | 2905.29 | 2904.68 | 2904.86 | 2906.54 | 2906.63 | 2905.39 | 2904.84 | 2903.94 | 2902.10 | 2900.24 | |
| MAXIMUM | 2907.79 | 2907.00 | 2905.90 | 2905.32 | 2904.94 | 2906.54 | 2907.12 | 2906.64 | 2905.43 | 2904.86 | 2903.94 | 2902.10 | |
| MINIMUM | 2906.94 | 2905.83 | 2905.29 | 2904.68 | 2904.48 | 2904.86 | 2906.54 | 2905.35 | 2904.49 | 2903.92 | 2902.10 | 2900.22 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 405.25 | 393.34 | 386.86 | 380.45 | 382.32 | 400.26 | 401.23 | 387.92 | 382.11 | 372.77 | 354.28 | 336.38 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| LAKE THUNDERBIRD | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 4.76 | 2.75 | 3.30 | 2.43 | 3.94 | 6.74 | 8.96 | 13.57 | 10.12 | 3.63 | 1.49 | 3.11 | 64.8 |
| FY 2000 | 1.61 | 0.20 | 4.93 | 1.77 | 3.73 | 6.55 | 4.22 | 9.32 | 16.33 | 7.63 | 0.56 | 1.13 | 58.0 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 2.23 | 3.36 | 2.76 | 3.51 | 2.76 | 7.07 | 6.75 | 9.40 | 8.78 | 3.10 | 1.36 | 0.59 | 51.7 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 2.70 | 8.49 | 0.00 | 0.00 | 12.7 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.94 | 2.21 | 1.66 | 1.32 | 1.68 | 2.50 | 3.43 | 5.16 | 4.42 | 2.71 | 2.65 | 3.61 | 34.29 |
| FY 2000 | 1.51 | 0.17 | 3.39 | 0.78 | 1.22 | 2.65 | 2.04 | 3.71 | 6.60 | 2.93 | 0.00 | 2.06 | 27.06 |
| DEVIATION | -1.43 | -2.04 | 1.73 | -0.54 | -0.46 | 0.15 | -1.39 | -1.45 | 2.18 | 0.22 | -2.65 | -1.55 | -7.23 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1037.28 | 1036.85 | 1037.35 | 1037.36 | 1037.59 | 1038.22 | 1038.37 | 1038.80 | 1040.30 | 1039.18 | 1038.09 | 1037.20 | |
| MAXIMUM | 1037.64 | 1037.30 | 1037.47 | 1037.36 | 1037.61 | 1038.22 | 1038.42 | 1039.28 | 1040.41 | 1040.72 | 1039.99 | 1038.09 | |
| MINIMUM | 1036.99 | 1036.85 | 1036.81 | 1037.27 | 1037.34 | 1037.59 | 1038.22 | 1038.37 | 1038.77 | 1039.17 | 1038.09 | 1037.18 | |
| POOL CONTENT-EOM (1000AC.FT) | 109.42 | 106.98 | 109.83 | 109.89 | 111.22 | 114.92 | 115.82 | 118.40 | 127.65 | 120.70 | 114.14 | 108.96 | |
| OOLOGAH LAKE | | | | | | | | | | | | | |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 143.14 | 153.08 | 106.69 | 101.79 | 108.97 | 220.91 | 299.03 | 316.11 | 309.48 | 156.30 | 54.59 | 100.70 | 2070.8 |
| FY 2000 | 84.70 | 13.10 | 214.96 | 35.45 | 62.18 | 467.91 | 83.39 | 307.94 | 384.50 | 214.17 | 4.48 | 0.12 | 1872.9 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 137.42 | 151.91 | 155.21 | 121.85 | 120.44 | 274.91 | 309.60 | 301.46 | 314.03 | 237.55 | 68.89 | 39.48 | 2232.8 |
| FY 2000 | 0.00 | 0.00 | 143.23 | 90.07 | 129.58 | 359.07 | 130.18 | 231.42 | 156.38 | 463.04 | 7.76 | 0.00 | 1710.7 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.15 | 2.53 | 1.57 | 1.33 | 1.38 | 2.65 | 3.70 | 5.04 | 5.01 | 3.48 | 3.26 | 4.44 | 37.54 |
| FY 2000 | 1.23 | 1.79 | 3.40 | 0.26 | 1.58 | 4.47 | 1.44 | 6.30 | 8.50 | 3.40 | 0.02 | 1.41 | 33.80 |
| DEVIATION | -1.92 | -0.74 | 1.83 | -1.07 | 0.20 | 1.82 | -2.26 | 1.26 | 3.49 | -0.08 | -3.24 | -3.03 | -3.74 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 640.17 | 640.27 | 642.34 | 640.25 | 637.88 | 640.82 | 638.83 | 639.99 | 645.83 | 638.21 | 637.18 | 636.55 | |
| MAXIMUM | 640.43 | 640.41 | 643.57 | 642.45 | 640.25 | 640.90 | 640.82 | 645.60 | 647.29 | 645.83 | 638.21 | 637.18 | |
| MINIMUM | 638.11 | 639.69 | 640.17 | 640.25 | 637.74 | 637.70 | 638.02 | 638.83 | 639.84 | 638.21 | 637.18 | 636.44 | |
| POOL CONTENT-EOM (1000AC.FT) | 622.44 | 625.82 | 697.42 | 625.14 | 548.60 | 644.42 | 578.49 | 616.36 | 828.65 | 558.86 | 527.45 | 509.21 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| PENSACOLA LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 353.14 | 392.93 | 315.42 | 283.29 | 335.74 | 543.47 | 704.14 | 750.55 | 742.92 | 410.35 | 187.27 | 269.12 | 5288.4 |
| FY 2000 | 71.80 | 51.57 | 422.29 | 83.11 | 165.82 | 565.50 | 212.04 | 602.19 | 1028.84 | 378.25 | 61.89 | 36.30 | 3679.6 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 352.32 | 467.41 | 459.23 | 343.45 | 359.64 | 660.84 | 750.48 | 742.75 | 673.68 | 526.27 | 274.78 | 244.60 | 5855.5 |
| FY 2000 | 58.22 | 17.60 | 379.46 | 108.53 | 150.28 | 556.54 | 194.25 | 465.88 | 844.30 | 514.01 | 188.36 | 11.23 | 3488.6 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.44 | 2.91 | 1.89 | 1.69 | 1.74 | 3.02 | 3.97 | 5.00 | 5.03 | 3.57 | 3.35 | 4.50 | 40.11 |
| FY 2000 | 1.20 | 2.69 | 5.01 | 0.55 | 2.02 | 3.66 | 2.07 | 7.02 | 8.21 | 4.54 | 0.04 | 2.59 | 39.60 |
| DEVIATION | -2.24 | -0.22 | 3.12 | -1.14 | 0.28 | 0.64 | -1.90 | 2.02 | 3.18 | 0.97 | -3.31 | -1.91 | -0.51 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 741.37 | 741.97 | 742.69 | 742.18 | 742.42 | 742.43 | 742.37 | 744.42 | 747.94 | 744.60 | 740.76 | 740.80 | |
| MAXIMUM | 741.53 | 741.97 | 744.39 | 742.88 | 742.46 | 743.24 | 742.43 | 746.89 | 748.47 | 747.94 | 744.69 | 740.83 | |
| MINIMUM | 741.06 | 741.27 | 741.92 | 742.12 | 741.91 | 742.25 | 741.62 | 742.34 | 743.99 | 743.34 | 740.76 | 740.53 | |
| POOL CONTENT-EOM (1000AC.FT) | 1509.91 | 1535.71 | 1567.36 | 1544.92 | 1555.48 | 1555.92 | 1553.28 | 1645.32 | 1813.06 | 1653.60 | 1483.92 | 1485.60 | |
| SKIATOOK LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1936 THRU 2000 | 12.37 | 10.82 | 7.45 | 5.73 | 9.12 | 20.04 | 23.11 | 31.90 | 20.45 | 9.28 | 4.35 | 11.01 | 165.6 |
| FY 2000 | 0.03 | 0.11 | 19.11 | 1.06 | 7.10 | 42.64 | 12.71 | 118.85 | 54.33 | 5.00 | 0.04 | 0.00 | 261.0 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1989 THRU 2000 | 6.65 | 4.82 | 3.54 | 11.42 | 9.19 | 26.61 | 23.15 | 41.20 | 30.88 | 20.50 | 11.13 | 7.58 | 196.7 |
| FY 2000 | 4.06 | 1.49 | 0.43 | 0.73 | 0.71 | 24.59 | 5.76 | 93.06 | 35.12 | 26.63 | 5.01 | 5.25 | 202.8 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.06 | 2.44 | 1.49 | 1.34 | 1.58 | 2.52 | 3.47 | 4.74 | 4.46 | 3.20 | 3.16 | 4.18 | 35.64 |
| FY 2000 | 1.20 | 0.37 | 4.75 | 0.67 | 1.14 | 4.56 | 1.71 | 10.83 | 6.64 | 3.11 | 3.20 | 4.22 | 42.40 |
| DEVIATION | -1.86 | -2.07 | 3.26 | -0.67 | -0.44 | 2.04 | -1.76 | 6.09 | 2.18 | -0.09 | 0.04 | 0.04 | 6.76 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 710.88 | 710.34 | 712.05 | 711.85 | 712.20 | 713.85 | 714.14 | 715.21 | 716.52 | 713.83 | 712.41 | 710.94 | |
| MAXIMUM | 711.75 | 710.93 | 712.17 | 712.10 | 712.27 | 715.12 | 714.40 | 720.93 | 717.64 | 716.52 | 713.83 | 712.41 | |
| MINIMUM | 710.73 | 710.34 | 710.30 | 711.84 | 711.72 | 712.17 | 713.85 | 714.14 | 713.89 | 713.77 | 712.41 | 710.94 | |
| POOL CONTENT-EOM (1000AC.FT) | 291.31 | 286.11 | 302.93 | 300.93 | 304.45 | 321.21 | 324.18 | 335.23 | 349.06 | 321.01 | 306.58 | 291.89 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TENKILLER FERRY LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 57.13 | 83.32 | 93.62 | 90.03 | 100.69 | 148.04 | 171.96 | 180.95 | 121.76 | 50.22 | 36.08 | 35.84 | 1169.6 |
| FY 2000 | 12.55 | 21.72 | 52.86 | 39.97 | 36.74 | 77.26 | 44.33 | 118.32 | 576.90 | 109.79 | 21.18 | 14.88 | 1126.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 51.26 | 73.87 | 107.22 | 118.23 | 84.72 | 135.70 | 170.15 | 131.46 | 108.36 | 79.84 | 46.42 | 32.47 | 1139.7 |
| FY 2000 | 34.40 | 17.56 | 15.71 | 30.63 | 34.00 | 57.05 | 42.43 | 75.76 | 306.84 | 391.79 | 75.32 | 44.79 | 1126.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.59 | 3.38 | 2.57 | 2.18 | 2.54 | 3.48 | 4.34 | 5.37 | 4.57 | 3.04 | 3.16 | 4.19 | 42.43 |
| FY 2000 | 1.41 | 4.62 | 4.49 | 1.71 | 1.89 | 3.25 | 2.08 | 6.22 | 12.08 | 3.01 | 0.25 | 3.34 | 44.35 |
| DEVIATION | -2.18 | 1.24 | 1.92 | -0.47 | -0.65 | -0.23 | -2.26 | 0.85 | 7.51 | -0.03 | -2.91 | -0.85 | 1.92 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 627.32 | 627.37 | 630.35 | 631.15 | 631.15 | 632.50 | 632.29 | 634.95 | 652.60 | 633.17 | 628.34 | 625.37 | |
| MAXIMUM | 629.54 | 627.53 | 630.35 | 631.66 | 631.15 | 632.61 | 632.82 | 635.06 | 652.60 | 652.60 | 633.22 | 628.38 | |
| MINIMUM | 627.13 | 626.83 | 627.23 | 630.35 | 630.12 | 631.15 | 631.81 | 632.29 | 633.25 | 632.96 | 628.34 | 624.86 | |
| POOL CONTENT-EOM (1000AC.FT) | 595.74 | 596.35 | 633.00 | 642.96 | 642.96 | 660.65 | 657.90 | 692.74 | 958.96 | 669.43 | 608.28 | 572.69 | |
| TORONTO LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1922 THRU 2000 | 22.38 | 24.43 | 15.76 | 12.64 | 17.49 | 35.54 | 49.60 | 45.93 | 51.33 | 29.93 | 11.00 | 20.95 | 337.0 |
| FY 2000 | 4.66 | 10.28 | 56.31 | 3.93 | 45.96 | 61.07 | 8.50 | 3.02 | 35.52 | 2.47 | 0.03 | 0.00 | 231.8 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 26.30 | 32.86 | 23.70 | 11.81 | 20.36 | 43.37 | 45.05 | 44.24 | 53.06 | 20.39 | 12.90 | 11.01 | 345.0 |
| FY 2000 | 36.22 | 3.51 | 60.01 | 5.91 | 27.55 | 77.51 | 8.69 | 1.86 | 8.52 | 26.22 | 1.44 | 0.60 | 258.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.79 | 2.16 | 1.29 | 1.07 | 1.06 | 2.39 | 3.13 | 4.21 | 5.00 | 3.82 | 3.59 | 3.93 | 34.42 |
| FY 2000 | 1.31 | 3.76 | 2.99 | 0.05 | 2.48 | 2.65 | 0.31 | 1.43 | 4.39 | 1.67 | 0.08 | 1.02 | 22.14 |
| DEVIATION | -1.48 | 1.60 | 1.70 | -1.02 | 1.42 | 0.26 | -2.82 | -2.78 | -0.61 | -2.15 | -3.51 | -2.91 | -12.28 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 901.30 | 903.53 | 902.31 | 901.62 | 907.21 | 901.87 | 901.66 | 901.72 | 909.23 | 901.93 | 900.73 | 899.94 | |
| MAXIMUM | 910.53 | 904.15 | 909.48 | 902.48 | 909.06 | 907.21 | 901.87 | 901.76 | 910.91 | 909.23 | 901.93 | 900.73 | |
| MINIMUM | 900.86 | 901.30 | 902.27 | 901.52 | 901.45 | 901.44 | 901.45 | 901.44 | 901.58 | 901.56 | 900.73 | 899.93 | |
| POOL CONTENT-EOM (1000AC.FT) | 20.50 | 26.70 | 23.23 | 21.35 | 39.14 | 22.02 | 21.46 | 21.62 | 47.27 | 22.17 | 19.03 | 17.09 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| WISTER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1939 THRU 2000 | 31.74 | 67.48 | 84.16 | 77.44 | 99.91 | 123.47 | 120.91 | 142.85 | 60.15 | 18.93 | 8.08 | 17.60 | 852.7 |
| FY 2000 | 0.57 | 0.94 | 56.52 | 13.66 | 23.16 | 29.65 | 54.99 | 51.93 | 159.97 | 2.58 | 0.00 | 2.43 | 396.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 21.32 | 53.82 | 118.03 | 103.32 | 89.82 | 119.76 | 101.36 | 116.83 | 98.98 | 19.63 | 7.32 | 10.75 | 860.9 |
| FY 2000 | 0.20 | 0.10 | 31.80 | 13.16 | 12.19 | 36.06 | 52.52 | 50.85 | 101.12 | 58.58 | 1.50 | 2.01 | 360.1 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.65 | 3.81 | 3.15 | 2.77 | 3.05 | 3.83 | 4.49 | 5.88 | 4.11 | 3.51 | 3.18 | 4.07 | 45.50 |
| FY 2000 | 2.90 | 1.77 | 5.51 | 2.22 | 1.55 | 2.50 | 3.19 | 3.32 | 7.64 | 1.80 | 0.20 | 2.58 | 35.18 |
| DEVIATION | -0.75 | -2.04 | 2.36 | -0.55 | -1.50 | -1.33 | -1.30 | -2.56 | 3.53 | -1.71 | -2.98 | -1.49 | -10.32 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 474.78 | 474.65 | 478.05 | 477.99 | 479.24 | 478.25 | 478.41 | 478.64 | 484.78 | 478.38 | 477.35 | 476.66 | |
| MAXIMUM | 475.16 | 474.78 | 481.77 | 478.89 | 479.31 | 479.24 | 480.47 | 481.05 | 488.65 | 484.78 | 478.38 | 477.35 | |
| MINIMUM | 474.71 | 474.54 | 474.64 | 477.97 | 477.97 | 477.92 | 477.92 | 477.93 | 478.08 | 478.08 | 477.35 | 476.52 | |
| POOL CONTENT-EOM (1000AC.FT) | 40.12 | 39.37 | 61.81 | 61.36 | 71.07 | 63.35 | 64.57 | 66.34 | 123.74 | 64.34 | 56.78 | 52.00 | |
| NEWT GRAHM L&D | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 295.19 | 248.45 | 196.58 | 193.80 | 183.14 | 373.26 | 516.72 | 568.66 | 525.69 | 284.39 | 103.27 | 145.67 | 3634.8 |
| FY 2000 | 21.06 | 21.56 | 336.72 | 147.29 | 216.25 | 813.33 | 326.10 | 857.72 | 495.61 | 674.89 | 42.59 | 21.08 | 3974.2 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 267.18 | 304.54 | 307.74 | 248.11 | 266.56 | 561.18 | 589.47 | 637.82 | 591.35 | 381.31 | 123.23 | 101.43 | 4379.9 |
| FY 2000 | 21.64 | 21.29 | 336.79 | 147.27 | 216.37 | 813.28 | 325.28 | 858.20 | 495.16 | 674.33 | 42.19 | 21.11 | 3972.9 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.17 | 2.56 | 1.68 | 1.43 | 1.56 | 2.66 | 3.68 | 4.93 | 4.71 | 3.22 | 3.08 | 4.33 | 37.01 |
| FY 2000 | 1.27 | 1.29 | 4.62 | 4.66 | 1.42 | 4.72 | 1.82 | 8.47 | 6.90 | 4.23 | 0.05 | 0.82 | 40.27 |
| DEVIATION | -1.90 | -1.27 | 2.94 | 3.23 | -0.14 | 2.06 | -1.86 | 3.54 | 2.19 | 1.01 | -3.03 | -3.51 | 3.26 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 532.66 | 532.67 | 532.75 | 532.81 | 532.48 | 532.26 | 532.70 | 532.03 | 532.03 | 532.68 | 532.60 | 532.74 | |
| MAXIMUM | 533.03 | 533.00 | 533.02 | 532.99 | 533.06 | 533.05 | 533.25 | 532.99 | 533.88 | 532.93 | 532.84 | 532.96 | |
| MINIMUM | 532.42 | 532.49 | 531.83 | 532.47 | 532.42 | 531.45 | 531.65 | 530.11 | 531.48 | 531.58 | 532.32 | 532.41 | |
| POOL CONTENT-EOM (1000AC.FT) | 24.51 | 24.52 | 24.64 | 24.74 | 24.23 | 23.89 | 24.57 | 23.54 | 23.54 | 24.54 | 24.41 | 24.63 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| ROBERT S KERR L&D | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1943 THRU 2000 | 1488.25 | 1543.10 | 1472.36 | 1351.18 | 1425.20 | 2578.84 | 2950.13 | 3573.54 | 3133.23 | 2192.36 | 1042.66 | 1162.32 | 23913.2 |
| FY 2000 | 490.92 | 201.03 | 1683.79 | 736.47 | 796.18 | 3484.22 | 2243.04 | 3628.02 | 3637.74 | 3755.76 | 922.33 | 404.34 | 21983.8 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1503.26 | 1848.48 | 1925.39 | 1722.03 | 1569.36 | 3192.26 | 3406.64 | 3846.40 | 3423.45 | 2108.95 | 1033.03 | 831.55 | 26410.8 |
| FY 2000 | 475.74 | 196.06 | 1669.29 | 748.24 | 767.97 | 3459.75 | 2236.83 | 3607.04 | 3466.48 | 3722.80 | 910.57 | 367.05 | 21627.8 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.72 | 3.40 | 2.64 | 2.22 | 2.56 | 3.51 | 4.43 | 5.56 | 4.50 | 3.14 | 3.03 | 4.29 | 43.02 |
| FY 2000 | 0.83 | 2.10 | 4.05 | 1.79 | 1.16 | 2.03 | 1.55 | 6.53 | 11.27 | 2.14 | 0.54 | 2.41 | 36.40 |
| DEVIATION | -2.89 | -1.30 | 1.41 | -0.43 | -1.40 | -1.48 | -2.88 | 0.97 | 6.77 | -1.00 | -2.49 | -1.88 | -6.62 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 459.77 | 459.70 | 459.99 | 459.40 | 459.83 | 460.16 | 460.00 | 460.03 | 459.57 | 459.79 | 459.50 | 459.71 | |
| MAXIMUM | 460.21 | 460.14 | 460.27 | 460.21 | 460.10 | 460.23 | 460.16 | 460.95 | 460.90 | 460.34 | 460.18 | 460.41 | |
| MINIMUM | 459.47 | 459.56 | 459.28 | 459.39 | 459.33 | 459.23 | 458.91 | 459.39 | 459.40 | 458.94 | 459.18 | 459.40 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 515.77 | 512.76 | 525.26 | 499.83 | 518.36 | 532.91 | 525.69 | 527.04 | 507.15 | 516.64 | 504.14 | 513.19 | |
| W. D. MAYO L&D | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1943 THRU 2000 | 1501.55 | 1597.78 | 1475.78 | 1389.69 | 1445.75 | 2613.51 | 3012.38 | 3572.81 | 3093.86 | 2153.49 | 1027.69 | 1137.67 | 24022.0 |
| FY 2000 | 501.73 | 212.93 | 1311.79 | 698.99 | 711.68 | 3014.13 | 2034.67 | 3295.49 | 3224.18 | 3492.84 | 809.96 | 333.33 | 19641.7 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1549.29 | 1863.93 | 1951.16 | 1772.93 | 1592.42 | 3209.63 | 3403.82 | 3819.79 | 3439.15 | 2117.22 | 1044.97 | 840.81 | 26605.1 |
| FY 2000 | 502.39 | 212.20 | 1535.10 | 699.89 | 710.45 | 3014.43 | 2033.31 | 3293.99 | 3225.19 | 3490.37 | 808.50 | 333.05 | 19858.9 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.48 | 3.65 | 2.72 | 2.34 | 2.71 | 3.61 | 4.39 | 5.37 | 4.10 | 3.05 | 2.86 | 4.00 | 42.28 |
| FY 2000 | 1.01 | 1.99 | 3.42 | 1.49 | 0.68 | 1.73 | 1.94 | 5.64 | 9.30 | 1.15 | 0.12 | 2.34 | 30.81 |
| DEVIATION | -2.47 | -1.66 | 0.70 | -0.85 | -2.03 | -1.88 | -2.45 | 0.27 | 5.20 | -1.90 | -2.74 | -1.66 | -11.47 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 412.00 | 412.64 | 412.17 | 412.22 | 412.85 | 412.49 | 412.25 | 412.09 | 411.19 | 412.40 | 412.63 | 412.48 | |
| MAXIMUM | 413.17 | 412.98 | 413.25 | 412.91 | 413.01 | 412.99 | 413.02 | 413.00 | 415.43 | 412.91 | 412.99 | 412.96 | |
| MINIMUM | 412.00 | 412.04 | 410.50 | 410.98 | 411.24 | 411.81 | 411.18 | 410.33 | 410.93 | 411.02 | 411.90 | 411.99 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 14.18 | 15.20 | 14.45 | 14.53 | 15.53 | 14.96 | 14.58 | 14.32 | 13.04 | 14.82 | 15.18 | 14.94 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
ARKANSAS RIVER BASIN

| CHOUTEAU L&D | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1923 THRU 2000 | 297.55 | 262.09 | 209.55 | 196.55 | 186.47 | 388.24 | 525.70 | 578.72 | 538.81 | 288.38 | 104.62 | 150.70 | 3727.4 |
| FY 2000 | 26.06 | 24.74 | 357.67 | 142.32 | 222.99 | 866.49 | 336.89 | 894.94 | 522.58 | 701.78 | 52.34 | 20.57 | 4169.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 269.84 | 324.28 | 325.13 | 257.05 | 275.87 | 583.37 | 615.05 | 668.92 | 627.92 | 392.46 | 126.91 | 100.57 | 4567.4 |
| FY 2000 | 25.44 | 25.65 | 357.04 | 141.92 | 222.52 | 866.43 | 335.27 | 894.47 | 521.83 | 700.06 | 50.21 | 20.10 | 4160.9 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.54 | 3.01 | 2.13 | 1.84 | 1.99 | 2.98 | 4.01 | 5.20 | 4.72 | 2.96 | 2.84 | 4.14 | 39.35 |
| FY 2000 | 1.04 | 2.98 | 4.14 | 1.05 | 2.70 | 3.43 | 1.90 | 9.48 | 8.96 | 4.73 | 0.00 | 1.71 | 42.12 |
| DEVIATION | -2.50 | -0.03 | 2.01 | -0.79 | 0.71 | 0.45 | -2.11 | 4.28 | 4.24 | 1.77 | -2.84 | -2.43 | 2.77 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 511.66 | 511.45 | 511.70 | 511.58 | 511.50 | 511.21 | 511.55 | 511.54 | 511.20 | 511.47 | 511.63 | 511.39 | |
| MAXIMUM | 511.85 | 512.04 | 511.91 | 511.80 | 512.03 | 512.85 | 511.76 | 512.26 | 512.08 | 511.81 | 511.87 | 511.84 | |
| MINIMUM | 511.41 | 511.32 | 511.01 | 511.35 | 510.72 | 511.02 | 511.01 | 510.73 | 510.99 | 510.97 | 511.17 | 511.34 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 24.07 | 23.59 | 24.16 | 23.89 | 23.70 | 23.05 | 23.82 | 23.80 | 23.02 | 23.64 | 24.00 | 23.46 | |

| WEBBERS FALLS L&D | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1940 THRU 2000 | 1167.50 | 1216.20 | 1023.82 | 874.72 | 907.37 | 1700.05 | 1984.21 | 2388.84 | 2256.33 | 1739.43 | 881.80 | 712.20 | 16852.5 |
| FY 2000 | 354.85 | 122.38 | 1525.11 | 586.52 | 609.73 | 3142.66 | 1793.48 | 2655.41 | 2246.41 | 2500.90 | 540.70 | 171.15 | 16249.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1239.64 | 1398.55 | 1334.20 | 1101.19 | 1055.82 | 2320.32 | 2541.54 | 2700.12 | 2557.01 | 1699.63 | 771.20 | 623.34 | 19342.6 |
| FY 2000 | 352.02 | 113.81 | 1525.15 | 580.16 | 609.67 | 3144.23 | 1784.54 | 2652.26 | 2238.79 | 2490.05 | 540.13 | 167.65 | 16198.4 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.58 | 3.04 | 2.25 | 1.89 | 2.11 | 3.07 | 4.09 | 5.24 | 4.74 | 2.96 | 2.82 | 4.27 | 40.07 |
| FY 2000 | 1.02 | 1.73 | 3.78 | 1.06 | 1.72 | 2.97 | 1.48 | 11.13 | 8.93 | 4.67 | 4.78 | 1.94 | 45.21 |
| DEVIATION | -2.56 | -1.31 | 1.53 | -0.83 | -0.39 | -0.10 | -2.61 | 5.89 | 4.19 | 1.71 | 1.96 | -2.33 | 5.14 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 490.03 | 490.24 | 490.10 | 490.37 | 490.11 | 489.66 | 490.25 | 489.80 | 490.18 | 490.47 | 489.90 | 489.48 | |
| MAXIMUM | 490.58 | 490.56 | 490.97 | 490.37 | 490.48 | 490.38 | 490.49 | 490.57 | 490.59 | 490.68 | 490.58 | 490.49 | |
| MINIMUM | 489.63 | 489.71 | 489.72 | 487.85 | 489.07 | 489.23 | 489.17 | 488.53 | 489.28 | 489.40 | 489.18 | 489.09 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 170.47 | 173.02 | 171.32 | 174.59 | 171.44 | 166.24 | 173.14 | 167.83 | 172.29 | 175.81 | 168.97 | 164.20 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| ALTUS RESERVOIR | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1938 THRU 2000 | 8.10 | 4.15 | 4.77 | 5.23 | 6.57 | 8.69 | 11.54 | 26.07 | 21.75 | 6.98 | 3.76 | 4.25 | 111.9 |
| FY 2000 | 0.33 | 0.47 | 2.94 | 3.49 | 5.77 | 23.35 | 18.11 | 6.55 | 26.97 | 9.86 | 0.05 | 0.00 | 97.9 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 0.35 | 2.45 | 2.61 | 2.60 | 3.92 | 6.41 | 7.18 | 15.40 | 10.19 | 4.40 | 3.73 | 0.20 | 59.4 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 0.00 | 0.00 | 2.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.14 | 0.90 | 0.76 | 0.63 | 0.87 | 1.40 | 2.14 | 3.82 | 3.17 | 2.11 | 2.37 | 2.24 | 22.55 |
| FY 2000 | 0.36 | 0.04 | 1.45 | 0.14 | 0.73 | 4.67 | 2.79 | 1.34 | 8.48 | 1.00 | 2.53 | 0.02 | 23.55 |
| DEVIATION | -1.78 | -0.86 | 0.69 | -0.49 | -0.14 | 3.27 | 0.65 | -2.48 | 5.31 | -1.11 | 0.16 | -2.22 | 1.00 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1545.13 | 1544.96 | 1545.68 | 1546.44 | 1547.58 | 1552.29 | 1555.37 | 1555.11 | 1558.98 | 1554.11 | 1542.63 | 1539.01 | |
| MAXIMUM | 1545.43 | 1545.13 | 1545.68 | 1546.44 | 1547.58 | 1552.29 | 1555.37 | 1555.90 | 1558.98 | 1559.70 | 1554.11 | 1542.63 | |
| MINIMUM | 1544.98 | 1544.96 | 1544.95 | 1545.68 | 1546.44 | 1547.58 | 1552.29 | 1555.11 | 1554.85 | 1554.11 | 1542.63 | 1539.01 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 64.89 | 64.23 | 67.04 | 70.08 | 74.80 | 96.60 | 112.99 | 111.53 | 134.37 | 106.06 | 55.68 | 43.65 | |
| ARBUCKLE RESERVOIR | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 3.48 | 3.57 | 4.44 | 4.04 | 5.35 | 7.76 | 8.80 | 13.48 | 7.94 | 2.78 | 1.79 | 3.82 | 67.2 |
| FY 2000 | 1.05 | 0.55 | 0.61 | 1.69 | 1.62 | 4.86 | 3.38 | 1.01 | 2.10 | 0.99 | 0.25 | 0.00 | 18.1 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1.36 | 2.10 | 4.62 | 4.85 | 3.73 | 8.30 | 7.14 | 11.68 | 9.08 | 1.31 | 0.43 | 1.90 | 56.5 |
| FY 2000 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.81 | 1.38 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 2.8 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.48 | 2.39 | 2.08 | 1.70 | 2.08 | 2.97 | 3.64 | 5.46 | 3.87 | 2.39 | 2.51 | 3.82 | 36.39 |
| FY 2000 | 2.66 | 1.30 | 1.33 | 2.65 | 1.45 | 3.81 | 3.07 | 1.83 | 6.05 | 3.10 | 0.00 | 1.37 | 28.62 |
| DEVIATION | -0.82 | -1.09 | -0.75 | 0.95 | -0.63 | 0.84 | -0.57 | -3.63 | 2.18 | 0.71 | -2.51 | -2.45 | -7.77 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 871.61 | 871.22 | 870.94 | 871.04 | 871.17 | 872.24 | 872.40 | 872.04 | 872.11 | 871.38 | 870.07 | 868.92 | |
| MAXIMUM | 871.99 | 871.66 | 871.24 | 871.20 | 871.20 | 872.51 | 872.69 | 872.52 | 872.14 | 872.12 | 871.38 | 870.07 | |
| MINIMUM | 871.42 | 871.18 | 870.93 | 870.92 | 870.89 | 871.08 | 872.18 | 872.03 | 871.86 | 871.36 | 870.07 | 868.92 | |
| POOL CONTENT-EOM | | | | | | | | | | | | | |
| (1000AC.FT) | 71.50 | 70.59 | 69.94 | 70.17 | 70.47 | 72.97 | 73.35 | 72.50 | 72.66 | 70.96 | 67.96 | 65.41 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| BROKEN BOW LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 47.23 | 77.32 | 105.75 | 106.16 | 112.80 | 137.60 | 123.16 | 136.14 | 53.92 | 27.27 | 12.00 | 21.91 | 961.3 |
| FY 2000 | 3.53 | 1.54 | 92.04 | 21.94 | 66.62 | 87.62 | 47.59 | 73.36 | 222.93 | 4.02 | 0.00 | 0.15 | 621.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 35.03 | 60.82 | 110.34 | 97.02 | 85.45 | 114.80 | 104.76 | 109.48 | 85.99 | 54.87 | 40.78 | 30.67 | 930.0 |
| FY 2000 | 10.76 | 8.76 | 9.64 | 7.90 | 18.03 | 50.81 | 45.63 | 35.96 | 180.61 | 96.80 | 47.04 | 54.01 | 566.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 4.53 | 4.34 | 4.10 | 3.49 | 3.60 | 4.63 | 5.01 | 6.26 | 4.46 | 4.30 | 3.41 | 4.36 | 52.48 |
| FY 2000 | 2.75 | 1.73 | 7.85 | 4.50 | 2.32 | 3.86 | 3.13 | 4.76 | 8.27 | 3.35 | 0.09 | 1.90 | 44.51 |
| DEVIATION | -1.78 | -2.61 | 3.75 | 1.01 | -1.28 | -0.77 | -1.88 | -1.50 | 3.81 | -0.95 | -3.32 | -2.46 | -7.97 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 589.20 | 588.38 | 594.19 | 595.04 | 598.37 | 600.79 | 600.68 | 603.97 | 606.51 | 599.51 | 595.36 | 590.43 | |
| MAXIMUM | 590.13 | 589.20 | 594.30 | 595.05 | 598.37 | 601.53 | 601.00 | 604.47 | 610.08 | 606.51 | 599.51 | 595.36 | |
| MINIMUM | 589.00 | 588.38 | 588.17 | 594.14 | 595.00 | 598.37 | 599.40 | 600.68 | 603.37 | 599.51 | 595.36 | 590.43 | |
| POOL CONTENT-EOM (1000AC.FT) | 779.05 | 768.58 | 844.64 | 856.14 | 902.15 | 936.49 | 934.92 | 982.93 | 1021.07 | 918.23 | 860.51 | 794.92 | |
| SARDIS LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 11.46 | 19.35 | 24.77 | 23.53 | 28.26 | 33.05 | 41.01 | 42.75 | 20.29 | 7.36 | 3.33 | 9.33 | 264.5 |
| FY 2000 | 0.12 | 1.65 | 15.85 | 7.26 | 8.33 | 13.48 | 25.74 | 20.14 | 18.63 | 3.19 | 0.00 | 4.70 | 119.1 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1985 THRU 2000 | 6.16 | 33.69 | 35.47 | 30.65 | 24.23 | 35.77 | 36.36 | 44.35 | 30.49 | 5.15 | 5.44 | 3.92 | 291.7 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.17 | 19.00 | 15.70 | 13.05 | 0.00 | 0.00 | 0.06 | 56.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.74 | 3.67 | 2.97 | 2.60 | 2.93 | 3.67 | 4.74 | 6.01 | 4.33 | 3.47 | 3.06 | 4.40 | 45.59 |
| FY 2000 | 1.28 | 1.39 | 5.39 | 1.59 | 1.43 | 2.38 | 3.61 | 4.58 | 6.37 | 1.49 | 0.09 | 2.63 | 32.23 |
| DEVIATION | -2.46 | -2.28 | 2.42 | -1.01 | -1.50 | -1.29 | -1.13 | -1.43 | 2.04 | -1.98 | -2.97 | -1.77 | -13.36 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 597.45 | 597.26 | 598.21 | 598.44 | 598.93 | 599.04 | 599.15 | 599.03 | 599.02 | 598.62 | 597.93 | 597.60 | |
| MAXIMUM | 597.77 | 597.46 | 598.27 | 598.47 | 598.93 | 599.42 | 599.51 | 599.53 | 599.78 | 599.03 | 598.62 | 597.93 | |
| MINIMUM | 597.35 | 597.23 | 597.19 | 598.17 | 598.44 | 598.88 | 599.00 | 599.01 | 598.96 | 598.62 | 597.93 | 597.59 | |
| POOL CONTENT-EOM (1000AC.FT) | 253.82 | 251.36 | 263.76 | 266.83 | 273.40 | 274.89 | 276.41 | 274.75 | 274.61 | 269.24 | 260.04 | 255.76 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| DENISON DAM | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1906 THRU 2000 | 378.96 | 221.98 | 223.40 | 174.44 | 213.31 | 320.93 | 462.61 | 847.48 | 759.27 | 252.34 | 173.78 | 249.40 | 4277.9 |
| FY 2000 | 23.21 | 25.29 | 113.26 | 50.28 | 54.45 | 268.86 | 252.38 | 262.02 | 275.21 | 186.38 | 3.97 | 0.00 | 1515.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 259.15 | 254.27 | 267.58 | 338.96 | 250.75 | 470.91 | 399.44 | 631.88 | 955.19 | 394.80 | 230.11 | 195.58 | 4648.6 |
| FY 2000 | 45.34 | 47.21 | 82.54 | 84.74 | 68.52 | 43.49 | 185.05 | 193.10 | 97.74 | 186.41 | 192.21 | 83.68 | 1310.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.50 | 1.46 | 1.25 | 1.12 | 1.35 | 1.77 | 2.52 | 4.24 | 3.46 | 2.19 | 2.32 | 2.91 | 27.08 |
| FY 2000 | 1.45 | 0.59 | 1.84 | 0.83 | 0.75 | 2.93 | 2.27 | 2.12 | 5.90 | 1.36 | 0.22 | 0.43 | 20.69 |
| DEVIATION | -1.05 | -0.87 | 0.59 | -0.29 | -0.60 | 1.16 | -0.25 | -2.12 | 2.44 | -0.83 | -2.10 | -2.48 | -6.39 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 614.22 | 613.60 | 613.51 | 612.82 | 612.46 | 615.33 | 616.00 | 616.52 | 618.30 | 617.87 | 614.68 | 612.67 | |
| MAXIMUM | 614.86 | 614.27 | 613.86 | 613.62 | 612.82 | 615.34 | 616.00 | 616.75 | 618.30 | 619.16 | 617.87 | 614.68 | |
| MINIMUM | 614.06 | 613.60 | 613.25 | 612.82 | 612.34 | 612.38 | 615.06 | 615.98 | 616.46 | 617.87 | 614.68 | 612.67 | |
| POOL CONTENT-EOM (1000AC.FT) | 2356.45 | 2310.12 | 2303.47 | 2252.81 | 2226.87 | 2442.31 | 2495.84 | 2539.81 | 2695.69 | 2657.08 | 2391.53 | 2242.00 | |
| FOSS RESERVOIR | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 4.24 | 2.87 | 2.12 | 2.29 | 2.73 | 4.63 | 9.38 | 16.11 | 12.80 | 4.16 | 3.45 | 3.50 | 68.3 |
| FY 2000 | 1.45 | 2.34 | 3.45 | 3.85 | 6.40 | 15.80 | 9.15 | 6.61 | 9.85 | 4.62 | 1.01 | 0.35 | 64.9 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1978 THRU 2000 | 3.47 | 1.58 | 1.66 | 2.94 | 2.73 | 3.21 | 4.43 | 5.62 | 8.34 | 4.87 | 3.28 | 2.10 | 44.2 |
| FY 2000 | 0.31 | 0.30 | 0.29 | 0.29 | 0.29 | 10.64 | 13.30 | 0.29 | 1.78 | 4.16 | 0.31 | 0.30 | 32.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 1.94 | 1.06 | 0.72 | 0.60 | 0.81 | 1.42 | 2.22 | 3.91 | 3.18 | 2.00 | 2.43 | 2.50 | 22.79 |
| FY 2000 | 0.25 | 0.03 | 1.65 | 0.32 | 0.88 | 4.93 | 2.57 | 1.82 | 7.31 | 1.27 | 0.08 | 0.00 | 21.11 |
| DEVIATION | -1.69 | -1.03 | 0.93 | -0.28 | 0.07 | 3.51 | 0.35 | -2.09 | 4.13 | -0.73 | -2.35 | -2.50 | -1.68 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1640.51 | 1640.45 | 1640.81 | 1641.13 | 1641.74 | 1642.18 | 1641.29 | 1641.71 | 1642.50 | 1641.87 | 1641.07 | 1640.19 | |
| MAXIMUM | 1640.73 | 1640.52 | 1640.82 | 1641.13 | 1641.78 | 1642.65 | 1642.43 | 1641.74 | 1642.50 | 1642.50 | 1641.87 | 1641.07 | |
| MINIMUM | 1460.67 | 1640.44 | 1640.43 | 1640.81 | 1641.13 | 1641.73 | 1641.00 | 1641.29 | 1641.70 | 1641.81 | 1641.07 | 1640.19 | |
| POOL CONTENT-EOM (1000AC.FT) | 168.04 | 167.66 | 169.99 | 172.09 | 176.16 | 179.14 | 173.16 | 175.96 | 181.35 | 177.03 | 171.69 | 165.97 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| FORT COBB | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 2.50 | 2.58 | 2.96 | 2.41 | 2.56 | 3.72 | 3.76 | 5.26 | 5.80 | 5.74 | 4.60 | 3.01 | 44.9 |
| FY 2000 | 1.82 | 1.12 | 8.25 | 1.89 | 3.46 | 10.03 | 10.16 | 13.79 | 11.88 | 1.96 | 0.99 | 0.37 | 65.7 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 1.13 | 1.73 | 1.61 | 1.90 | 1.77 | 3.27 | 2.69 | 3.68 | 8.86 | 2.01 | 0.79 | 0.74 | 30.2 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 3.38 | 4.01 | 6.24 | 10.85 | 7.41 | 5.55 | 0.00 | 0.00 | 37.4 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.47 | 1.57 | 1.24 | 0.96 | 1.19 | 1.82 | 2.64 | 4.71 | 3.88 | 2.29 | 2.54 | 3.11 | 28.42 |
| FY 2000 | 0.83 | 0.24 | 3.88 | 0.52 | 1.03 | 4.21 | 2.97 | 5.32 | 7.13 | 1.53 | 0.01 | 0.40 | 28.07 |
| DEVIATION | -1.64 | -1.33 | 2.64 | -0.44 | -0.16 | 2.39 | 0.33 | 0.61 | 3.25 | -0.76 | -2.53 | -2.71 | -0.35 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1340.46 | 1340.30 | 1342.22 | 1342.42 | 1342.05 | 1343.12 | 1343.57 | 1343.54 | 1344.00 | 1342.24 | 1341.32 | 1340.45 | |
| MAXIMUM | 1340.66 | 1340.51 | 1342.24 | 1342.42 | 1342.47 | 1343.78 | 1343.57 | 1344.60 | 1344.02 | 1344.02 | 1342.24 | 1341.32 | |
| MINIMUM | 1340.16 | 1340.30 | 1340.30 | 1342.19 | 1341.99 | 1341.97 | 1342.00 | 1342.11 | 1342.46 | 1342.24 | 1341.32 | 1340.45 | |
| POOL CONTENT-EOM (1000AC.FT) | 68.20 | 67.63 | 74.69 | 75.47 | 74.03 | 78.21 | 80.04 | 79.92 | 81.79 | 74.77 | 71.30 | 68.16 | |
| HUGO LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 63.70 | 112.24 | 149.60 | 148.29 | 175.88 | 204.07 | 243.16 | 257.24 | 121.71 | 44.35 | 18.89 | 50.82 | 1590.0 |
| FY 2000 | 4.64 | 7.26 | 100.64 | 29.75 | 60.30 | 95.96 | 140.21 | 138.87 | 200.95 | 13.45 | 4.69 | 6.84 | 803.6 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 55.33 | 133.89 | 171.63 | 166.05 | 166.66 | 211.09 | 212.44 | 234.44 | 164.52 | 59.41 | 41.03 | 29.80 | 1646.3 |
| FY 2000 | 8.90 | 4.53 | 68.07 | 25.20 | 49.84 | 53.83 | 133.01 | 150.38 | 198.23 | 20.35 | 43.06 | 15.07 | 770.5 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.93 | 3.86 | 3.23 | 2.81 | 3.17 | 3.94 | 4.83 | 6.04 | 4.28 | 3.45 | 3.09 | 4.43 | 47.04 |
| FY 2000 | 2.26 | 1.69 | 5.41 | 2.19 | 1.68 | 2.98 | 3.71 | 4.97 | 6.62 | 1.77 | 0.04 | 2.11 | 35.43 |
| DEVIATION | -1.67 | -2.17 | 2.18 | -0.62 | -1.49 | -0.96 | -1.12 | -1.07 | 2.34 | -1.68 | -3.05 | -2.32 | -11.61 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 402.07 | 401.99 | 404.65 | 404.78 | 405.33 | 408.10 | 408.14 | 407.78 | 407.65 | 406.77 | 403.38 | 401.89 | |
| MAXIMUM | 402.77 | 402.20 | 407.07 | 405.21 | 405.68 | 408.10 | 409.19 | 410.10 | 410.02 | 407.84 | 406.77 | 403.48 | |
| MINIMUM | 402.03 | 401.70 | 401.99 | 404.60 | 404.62 | 404.70 | 407.10 | 407.55 | 407.41 | 406.77 | 403.38 | 401.89 | |
| POOL CONTENT-EOM (1000AC.FT) | 127.92 | 126.94 | 160.59 | 162.30 | 169.67 | 208.77 | 209.36 | 204.10 | 202.22 | 189.57 | 144.15 | 125.78 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| MC GEE CREEK | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1938 THRU 2000 | 5.56 | 8.57 | 9.73 | 7.96 | 12.72 | 17.32 | 19.82 | 21.69 | 11.15 | 3.68 | 2.06 | 4.53 | 124.8 |
| FY 2000 | 2.13 | 2.26 | 43.39 | 3.61 | 10.90 | 10.82 | 15.00 | 15.34 | 9.35 | 4.26 | 2.26 | 4.15 | 123.5 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1989 THRU 2000 | 2.67 | 13.61 | 22.52 | 17.77 | 14.66 | 25.70 | 19.04 | 31.59 | 18.55 | 4.77 | 3.49 | 3.99 | 178.4 |
| FY 2000 | 0.86 | 0.83 | 38.41 | 2.61 | 4.67 | 10.67 | 10.33 | 9.31 | 0.83 | 0.86 | 0.86 | 0.83 | 81.1 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.57 | 2.13 | 1.59 | 2.25 | 2.95 | 3.46 | 4.83 | 5.71 | 4.24 | 3.27 | 2.92 | 4.44 | 40.35 |
| FY 2000 | 2.43 | 1.83 | 4.45 | 2.23 | 1.44 | 2.66 | 3.61 | 3.59 | 4.67 | 2.13 | 0.05 | 2.68 | 31.77 |
| DEVIATION | -0.14 | -0.30 | 2.86 | -0.02 | -1.51 | -0.80 | -1.22 | -2.12 | 0.43 | -1.14 | -2.87 | -1.76 | -8.58 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 175.64 | 175.61 | 175.92 | 175.89 | 176.13 | 175.88 | 176.02 | 175.88 | 175.84 | 175.19 | 174.88 | 174.75 | |
| MAXIMUM | 175.75 | 175.64 | 176.59 | 175.99 | 176.25 | 176.19 | 176.19 | 176.59 | 175.98 | 175.84 | 175.19 | 174.88 | |
| MINIMUM | 175.60 | 175.53 | 175.60 | 175.86 | 175.86 | 175.88 | 175.65 | 175.88 | 175.78 | 175.19 | 174.88 | 174.73 | |
| POOL CONTENT-EOM (1000AC.FT) | 110.80 | 110.43 | 114.19 | 113.83 | 116.86 | 113.71 | 115.42 | 113.71 | 113.22 | 105.34 | 101.69 | 100.23 | |
| TOM STEED RESERVOIR | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 2.17 | 0.72 | 0.76 | 0.56 | 0.82 | 1.78 | 1.90 | 6.73 | 5.05 | 1.32 | 1.12 | 2.24 | 25.2 |
| FY 2000 | 1.66 | 0.15 | 5.74 | 0.18 | 0.89 | 13.72 | 7.88 | 6.36 | 4.76 | 2.14 | 0.00 | 0.57 | 44.0 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1981 THRU 2000 | 0.62 | 1.08 | 0.73 | 0.22 | 0.73 | 1.09 | 0.41 | 2.90 | 2.52 | 0.31 | 0.32 | 0.27 | 11.2 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.8 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.55 | 1.40 | 1.14 | 0.98 | 1.18 | 1.74 | 2.38 | 4.50 | 3.49 | 2.29 | 2.36 | 2.91 | 26.93 |
| FY 2000 | 2.84 | 0.14 | 2.70 | 0.35 | 1.48 | 5.23 | 2.43 | 2.74 | 5.89 | 0.79 | 0.00 | 1.01 | 25.60 |
| DEVIATION | 0.29 | -1.26 | 1.56 | -0.63 | 0.30 | 3.49 | 0.05 | -1.76 | 2.40 | -1.50 | -2.36 | -1.90 | -1.33 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1405.68 | 1405.23 | 1405.95 | 1405.61 | 1405.39 | 1407.40 | 1408.27 | 1408.68 | 1408.87 | 1408.32 | 1407.23 | 1406.38 | |
| MAXIMUM | 1405.96 | 1405.70 | 1406.20 | 1405.95 | 1405.61 | 1407.44 | 1408.27 | 1409.24 | 1408.87 | 1409.10 | 1408.32 | 1407.23 | |
| MINIMUM | 1405.47 | 1405.23 | 1405.17 | 1405.61 | 1405.37 | 1405.31 | 1407.27 | 1408.27 | 1408.50 | 1408.32 | 1407.23 | 1406.38 | |
| POOL CONTENT-EOM (1000AC.FT) | 67.31 | 65.04 | 68.67 | 66.96 | 65.85 | 76.37 | 81.19 | 83.52 | 84.60 | 81.47 | 75.44 | 70.92 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| | | | | | | | | | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PAT MAYSE LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1938 THRU 2000 | 5.18 | 8.78 | 10.60 | 7.56 | 14.08 | 14.81 | 14.76 | 18.36 | 11.58 | 3.55 | 1.39 | 3.48 | 114.1 |
| FY 2000 | 0.36 | 1.76 | 10.98 | 1.92 | 5.01 | 7.35 | 4.16 | 6.25 | 13.13 | 2.08 | 0.00 | 0.06 | 53.0 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 0.84 | 5.08 | 9.40 | 7.14 | 8.85 | 14.98 | 10.89 | 13.34 | 13.11 | 4.30 | 0.81 | 0.35 | 89.1 |
| FY 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.25 | 3.53 | 8.78 | 2.61 | 0.00 | 0.00 | 15.2 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.63 | 3.38 | 3.11 | 2.62 | 3.03 | 3.73 | 4.32 | 5.09 | 3.99 | 3.20 | 2.40 | 3.77 | 42.28 |
| FY 2000 | 1.46 | 1.91 | 4.67 | 1.20 | 0.96 | 2.41 | 2.58 | 3.78 | 6.45 | 1.43 | 0.00 | 1.29 | 28.14 |
| DEVIATION | -2.17 | -1.47 | 1.56 | -1.42 | -2.07 | -1.32 | -1.74 | -1.31 | 2.46 | -1.77 | -2.40 | -2.48 | -14.14 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 448.38 | 448.25 | 449.78 | 449.72 | 450.21 | 450.90 | 451.03 | 451.75 | 451.93 | 450.82 | 449.79 | 448.97 | |
| MAXIMUM | 448.82 | 448.38 | 450.02 | 449.81 | 450.23 | 450.95 | 451.14 | 452.33 | 452.52 | 452.15 | 450.82 | 449.79 | |
| MINIMUM | 448.34 | 448.05 | 448.18 | 449.62 | 449.71 | 450.18 | 450.87 | 451.03 | 451.63 | 450.82 | 449.79 | 448.97 | |
| POOL CONTENT-EOM (1000AC.FT) | 103.17 | 102.45 | 111.02 | 110.68 | 113.50 | 117.52 | 118.29 | 122.66 | 123.75 | 117.06 | 111.08 | 106.43 | |
| PINE CREEK LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 31.29 | 51.15 | 68.38 | 65.18 | 82.04 | 89.74 | 93.92 | 111.53 | 44.75 | 17.43 | 8.84 | 22.83 | 687.1 |
| FY 2000 | 0.00 | 1.40 | 50.69 | 12.85 | 37.09 | 44.88 | 52.56 | 88.14 | 148.23 | 4.75 | 1.46 | 0.24 | 442.3 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 32.84 | 66.28 | 85.25 | 72.99 | 73.31 | 97.25 | 76.75 | 110.71 | 67.44 | 19.14 | 14.18 | 20.61 | 736.7 |
| FY 2000 | 3.84 | 3.62 | 39.87 | 11.12 | 29.92 | 40.07 | 45.16 | 95.33 | 150.35 | 10.98 | 6.29 | 3.76 | 440.3 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 4.05 | 3.91 | 3.52 | 3.04 | 3.32 | 4.12 | 4.82 | 6.01 | 4.13 | 3.69 | 3.24 | 4.44 | 48.28 |
| FY 2000 | 1.92 | 1.60 | 5.89 | 1.63 | 1.71 | 3.24 | 3.59 | 6.63 | 6.77 | 1.31 | 0.05 | 1.83 | 36.17 |
| DEVIATION | -2.13 | -2.31 | 2.37 | -1.41 | -1.61 | -0.88 | -1.23 | 0.62 | 2.64 | -2.38 | -3.19 | -2.61 | -12.11 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 436.17 | 435.28 | 438.12 | 438.45 | 440.02 | 440.91 | 442.91 | 443.57 | 442.81 | 440.89 | 438.50 | 436.36 | |
| MAXIMUM | 437.80 | 436.18 | 444.23 | 438.78 | 440.46 | 441.35 | 444.30 | 446.76 | 448.74 | 442.81 | 440.89 | 438.51 | |
| MINIMUM | 436.13 | 435.24 | 435.20 | 438.08 | 437.94 | 438.11 | 440.50 | 442.55 | 442.55 | 440.89 | 438.46 | 436.36 | |
| POOL CONTENT-EOM (1000AC.FT) | 47.24 | 44.31 | 54.21 | 55.49 | 61.77 | 65.58 | 74.80 | 78.07 | 74.33 | 65.50 | 55.68 | 47.89 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
TULSA DISTRICT
RED RIVER BASIN

| LAKE KEMP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1924 THRU 2000 | 22.05 | 6.27 | 7.05 | 4.31 | 7.16 | 9.32 | 12.82 | 36.44 | 28.27 | 13.49 | 17.05 | 24.39 | 188.6 |
| FY 2000 | 0.00 | 0.87 | 2.38 | 0.37 | 2.67 | 31.60 | 8.53 | 2.53 | 11.94 | 6.79 | 0.00 | 0.00 | 67.7 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1976 THRU 2000 | 7.09 | 4.64 | 2.26 | 3.25 | 3.42 | 7.15 | 6.32 | 10.13 | 19.95 | 15.50 | 16.00 | 10.96 | 106.7 |
| FY 2000 | 7.39 | 0.00 | 1.46 | 4.78 | 0.00 | 2.84 | 0.70 | 7.44 | 5.71 | 11.74 | 14.33 | 11.66 | 68.0 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 2.05 | 1.06 | 0.89 | 0.78 | 1.06 | 1.16 | 1.94 | 3.41 | 2.75 | 1.79 | 2.14 | 2.64 | 21.66 |
| FY 2000 | 0.92 | 0.50 | 2.70 | 0.31 | 0.55 | 3.33 | 1.33 | 1.99 | 2.74 | 0.68 | 0.00 | 0.04 | 15.09 |
| DEVIATION | -1.13 | -0.56 | 1.81 | -0.47 | -0.51 | 2.17 | -0.61 | -1.42 | -0.01 | -1.11 | -2.14 | -2.60 | -6.57 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 1134.46 | 1134.22 | 1134.06 | 1133.25 | 1133.25 | 1136.22 | 1136.56 | 1135.01 | 1134.99 | 1132.98 | 1129.68 | 1126.73 | |
| MAXIMUM | 1135.74 | 1134.49 | 1134.39 | 1134.15 | 1133.34 | 1136.22 | 1136.71 | 1136.56 | 1135.26 | 1135.52 | 1132.98 | 1129.68 | |
| MINIMUM | 1134.39 | 1134.20 | 1134.05 | 1133.25 | 1133.18 | 1132.72 | 1136.21 | 1135.00 | 1134.22 | 1132.98 | 1129.68 | 1126.73 | |
| POOL CONTENT-EOM (1000AC.FT) | 152.74 | 150.74 | 149.40 | 143.08 | 143.08 | 168.43 | 171.77 | 157.34 | 157.16 | 140.99 | 118.39 | 100.52 | |
| WAURIKA LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| INFLOWS(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1926 THRU 2000 | 10.68 | 5.25 | 5.92 | 3.97 | 6.86 | 10.28 | 11.03 | 30.00 | 20.61 | 4.11 | 2.17 | 5.82 | 116.7 |
| FY 2000 | 4.73 | 0.27 | 3.20 | 2.36 | 2.90 | 6.94 | 5.12 | 4.10 | 6.21 | 1.61 | 0.00 | 0.00 | 37.4 |
| RELEASES(1000AC.FT.) | | | | | | | | | | | | | |
| AVG 1983 THRU 2000 | 6.49 | 12.53 | 7.43 | 10.87 | 9.57 | 22.59 | 16.23 | 23.48 | 30.80 | 7.51 | 4.32 | 6.08 | 157.9 |
| FY 2000 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.1 |
| RAINFALL(INCHES) | | | | | | | | | | | | | |
| AVG 1930 THRU 2000 | 3.04 | 1.90 | 1.57 | 1.32 | 1.51 | 2.11 | 2.76 | 4.98 | 3.67 | 2.28 | 2.36 | 3.29 | 30.80 |
| FY 2000 | 1.59 | 0.32 | 1.50 | 0.42 | 0.81 | 1.17 | 1.70 | 0.88 | 3.92 | 1.18 | 0.00 | 0.65 | 14.14 |
| DEVIATION | -1.45 | -1.58 | -0.07 | -0.90 | -0.70 | -0.94 | -1.06 | -4.10 | 0.25 | -1.10 | -2.36 | -2.64 | -16.66 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 948.95 | 948.52 | 948.50 | 948.44 | 948.47 | 948.81 | 948.81 | 948.53 | 948.70 | 948.16 | 947.25 | 946.70 | |
| MAXIMUM | 949.04 | 949.76 | 948.83 | 948.84 | 948.62 | 948.87 | 949.02 | 949.01 | 948.70 | 948.77 | 948.16 | 947.28 | |
| MINIMUM | 948.56 | 948.52 | 948.46 | 948.40 | 948.34 | 948.30 | 948.70 | 948.53 | 948.28 | 948.09 | 947.25 | 946.69 | |
| POOL CONTENT-EOM (1000AC.FT) | 166.76 | 162.91 | 162.73 | 162.20 | 162.47 | 165.50 | 165.50 | 163.00 | 164.52 | 159.70 | 151.74 | 147.04 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
WHITE RIVER BASIN

| BEAVER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1968 thru 2000 | 43.4 | 115.6 | 116.5 | 95.5 | 114.4 | 188.9 | 180.2 | 131.8 | 88.3 | 24.0 | 14.7 | 29.0 | 1142.2 |
| WY 2000 | 5.4 | 4.7 | 58.2 | 21.8 | 25.3 | 54.6 | 39.5 | 106.0 | 343.1 | 52.7 | 7.4 | 7.4 | 726.0 |
| | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1968 thru 2000 | 34.2 | 52.2 | 89.1 | 92.7 | 100.6 | 107.4 | 135.7 | 114.4 | 97.3 | 83.5 | 85.4 | 51.7 | 1044.1 |
| WY 2000 | 43.4 | 29.8 | 10.0 | 10.7 | 7.2 | 12.4 | 12.3 | 8.4 | 142.4 | 124.5 | 152.3 | 77.5 | 631.0 |
| | | | | | | | | | | | | | |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1977 thru 2000 | 3.9 | 5.0 | 3.3 | 2.6 | 2.9 | 4.5 | 4.3 | 5.4 | 4.9 | 3.2 | 3.2 | 4.1 | 47.2 |
| WY 2000 | 2.8 | 1.9 | 4.5 | 2.2 | 1.7 | 3.2 | 1.4 | 6.0 | 12.2 | 4.3 | 0.3 | 4.2 | 44.8 |
| Deviation | -1.1 | -3.1 | 1.3 | -0.4 | -1.2 | -1.3 | -3.0 | 0.6 | 7.4 | 1.1 | -2.8 | 0.1 | -2.4 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 1110.79 | 1109.53 | 1111.30 | 1111.57 | 1112.09 | 1113.47 | 1114.14 | 1117.45 | 1124.13 | 1121.23 | 1115.39 | 1112.37 | |
| Maximum | 1112.62 | 1110.83 | 1111.36 | 1111.69 | 1112.11 | 1113.52 | 1114.17 | 1117.46 | 1124.44 | 1124.03 | 1121.21 | 1115.37 | |
| Minimum | 1110.76 | 1109.53 | 1109.51 | 1111.27 | 1111.47 | 1112.02 | 1113.41 | 1114.18 | 1117.41 | 1120.95 | 1115.36 | 1112.37 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 1406.1 | 1374.5 | 1419.0 | 1425.8 | 1439.0 | 1474.8 | 1492.2 | 1581.1 | 1771.5 | 1687.1 | 1525.5 | 1446.3 | |
| | | | | | | | | | | | | | |
| TABLE ROCK LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1961 thru 2000 | 100.0 | 238.3 | 283.8 | 248.9 | 288.3 | 425.0 | 446.7 | 380.9 | 258.5 | 143.8 | 113.0 | 108.7 | 3036.1 |
| WY 2000 | 54.0 | 34.1 | 90.1 | 47.4 | 62.6 | 131.0 | 68.7 | 87.9 | 472.7 | 282.5 | 178.1 | 74.3 | 1583.3 |
| | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1961 thru 2000 | 120.4 | 177.6 | 269.9 | 255.5 | 240.0 | 345.6 | 376.5 | 334.4 | 230.8 | 221.2 | 184.1 | 127.7 | 2883.7 |
| WY 2000 | 96.2 | 49.6 | 126.5 | 150.1 | 47.8 | 2.8 | 4.3 | 13.8 | 67.7 | 321.7 | 351.8 | 99.1 | 1331.3 |
| | | | | | | | | | | | | | |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.4 | 4.3 | 3.2 | 2.3 | 2.5 | 4.0 | 4.1 | 4.9 | 4.5 | 3.4 | 3.4 | 4.0 | 44.0 |
| WY 2000 | 1.7 | 1.1 | 4.9 | 2.0 | 1.8 | 3.5 | 1.4 | 4.5 | 8.8 | 5.0 | 0.1 | 3.0 | 37.7 |
| Deviation | -1.7 | -3.2 | 1.8 | -0.3 | -0.8 | -0.6 | -2.7 | -0.4 | 4.3 | 1.6 | -3.2 | -1.0 | -6.3 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 905.72 | 905.05 | 903.90 | 900.85 | 901.02 | 904.23 | 905.52 | 907.06 | 916.45 | 915.06 | 910.40 | 909.40 | |
| Maximum | 907.15 | 905.72 | 905.70 | 904.10 | 901.04 | 904.23 | 905.52 | 907.06 | 916.45 | 917.31 | 915.08 | 910.40 | |
| Minimum | 905.69 | 905.03 | 903.87 | 900.85 | 899.87 | 901.01 | 904.24 | 905.56 | 907.06 | 914.63 | 910.37 | 909.12 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 2324.2 | 2298.9 | 2255.2 | 2144.5 | 2150.6 | 2267.9 | 2316.6 | 2376.4 | 2764.7 | 2704.8 | 2509.5 | 2469.1 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
WHITE RIVER BASIN

| BULL SHOALS LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1953 thru 2000 | 160.3 | 292.5 | 385.5 | 342.8 | 372.8 | 569.5 | 592.0 | 561.6 | 358.8 | 271.1 | 211.3 | 173.9 | 4292.1 |
| WY 2000 | 96.9 | 51.5 | 186.8 | 180.1 | 109.7 | 87.1 | 49.4 | 57.8 | 247.5 | 391.5 | 339.1 | 105.1 | 1902.6 |
| | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1953 thru 2000 | 239.7 | 198.4 | 324.4 | 359.9 | 348.6 | 427.4 | 428.7 | 380.1 | 344.6 | 428.9 | 371.5 | 248.1 | 4100.3 |
| WY 2000 | 193.2 | 110.6 | 108.6 | 177.2 | 94.4 | 7.4 | 15.0 | 31.5 | 40.5 | 360.2 | 505.4 | 141.6 | 1785.7 |
| | | | | | | | | | | | | | |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.2 | 4.4 | 3.2 | 2.4 | 2.6 | 4.0 | 3.8 | 4.6 | 4.0 | 3.2 | 2.9 | 3.5 | 41.7 |
| WY 2000 | 1.2 | 1.0 | 4.9 | 2.0 | 1.7 | 3.6 | 1.0 | 4.1 | 7.0 | 4.3 | 0.2 | 2.9 | 34.1 |
| Deviation | -1.9 | -3.5 | 1.8 | -0.3 | -0.9 | -0.4 | -2.8 | -0.5 | 3.0 | 1.1 | -2.7 | -0.6 | -7.6 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 642.57 | 640.70 | 642.37 | 642.11 | 642.15 | 643.75 | 644.08 | 644.24 | 648.68 | 648.82 | 644.21 | 642.78 | |
| Maximum | 645.43 | 642.59 | 642.37 | 643.50 | 642.15 | 643.78 | 644.26 | 644.26 | 648.68 | 649.07 | 648.97 | 644.31 | |
| Minimum | 642.39 | 640.64 | 639.76 | 642.05 | 641.24 | 642.12 | 643.74 | 643.71 | 644.06 | 647.84 | 644.15 | 642.62 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 2561.5 | 2487.7 | 2553.6 | 2543.3 | 2544.9 | 2608.1 | 2621.3 | 2627.8 | 2813.2 | 2819.3 | 2626.6 | 2569.8 | |
| | | | | | | | | | | | | | |
| NORFORK LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1946 thru 2000 | 53.3 | 107.0 | 123.0 | 125.2 | 138.4 | 192.3 | 202.7 | 190.5 | 105.2 | 71.5 | 47.6 | 53.0 | 1409.9 |
| WY 2000 | 29.0 | 26.3 | 46.6 | 39.7 | 60.7 | 64.4 | 46.6 | 65.8 | 88.3 | 48.8 | 23.2 | 17.7 | 557.0 |
| | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1946 thru 2000 | 70.1 | 65.2 | 116.0 | 128.4 | 126.4 | 136.7 | 140.6 | 116.9 | 117.3 | 121.2 | 105.9 | 82.2 | 1326.9 |
| WY 2000 | 28.2 | 28.7 | 13.0 | 26.6 | 45.4 | 100.5 | 36.1 | 13.8 | 21.7 | 30.9 | 86.1 | 48.5 | 479.6 |
| | | | | | | | | | | | | | |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.3 | 4.5 | 3.4 | 2.5 | 2.9 | 4.0 | 4.0 | 4.8 | 3.7 | 3.2 | 2.7 | 3.5 | 42.5 |
| WY 2000 | 2.9 | 1.1 | 5.1 | 2.2 | 3.0 | 3.1 | 1.4 | 4.5 | 5.8 | 3.1 | 0.4 | 2.5 | 35.2 |
| Deviation | -0.4 | -3.4 | 1.6 | -0.3 | 0.1 | -0.9 | -2.6 | -0.3 | 2.1 | -0.1 | -2.2 | -1.0 | -7.4 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 546.78 | 546.37 | 547.77 | 548.15 | 548.62 | 546.55 | 546.61 | 548.70 | 551.36 | 551.66 | 548.17 | 546.25 | |
| Maximum | 547.12 | 546.93 | 547.77 | 548.54 | 548.62 | 548.97 | 546.71 | 548.70 | 551.36 | 551.71 | 551.68 | 548.16 | |
| Minimum | 546.66 | 546.37 | 546.28 | 547.77 | 547.11 | 546.51 | 545.71 | 546.61 | 548.68 | 551.25 | 548.17 | 546.25 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 1140.0 | 1131.7 | 1160.6 | 1168.5 | 1178.4 | 1135.4 | 1136.6 | 1180.0 | 1237.1 | 1243.7 | 1169.0 | 1129.3 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
WHITE RIVER BASIN

| CLEARWATER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1949 thru 2000 | 22.8 | 55.6 | 62.5 | 58.7 | 59.5 | 88.4 | 98.9 | 79.7 | 40.8 | 27.9 | 20.6 | 21.2 | 636.6 |
| WY 2000 | 19.3 | 17.2 | 33.3 | 23.4 | 48.9 | 44.3 | 23.4 | 20.3 | 25.4 | 19.8 | 15.1 | 13.1 | 303.7 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1949 thru 2000 | 25.2 | 33.8 | 62.3 | 65.6 | 62.8 | 80.4 | 82.3 | 77.5 | 53.9 | 33.5 | 26.5 | 25.5 | 629.4 |
| WY 2000 | 29.1 | 17.4 | 33.4 | 23.0 | 37.3 | 55.8 | 17.7 | 16.2 | 19.3 | 21.8 | 15.2 | 12.4 | 298.6 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.5 | 5.4 | 3.7 | 2.7 | 2.9 | 4.0 | 4.4 | 4.5 | 4.1 | 4.1 | 3.5 | 3.6 | 46.4 |
| WY 2000 | 2.6 | 1.0 | 4.7 | 2.6 | 4.9 | 2.8 | 0.7 | 2.5 | 6.8 | 2.9 | 1.4 | 3.4 | 36.4 |
| Deviation | -1.0 | -4.4 | 1.0 | -0.2 | 2.1 | -1.2 | -3.7 | -2.0 | 2.8 | -1.1 | -2.0 | -0.2 | -10.0 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 494.60 | 494.33 | 494.25 | 494.47 | 500.68 | 494.31 | 497.34 | 499.26 | 501.91 | 500.61 | 500.17 | 500.23 | |
| Maximum | 500.15 | 494.62 | 497.35 | 494.81 | 501.88 | 500.63 | 497.34 | 500.08 | 502.89 | 501.90 | 500.61 | 500.63 | |
| Minimum | 494.60 | 494.12 | 494.13 | 493.91 | 494.23 | 493.90 | 494.07 | 496.78 | 499.27 | 500.03 | 500.17 | 500.16 | |
| Pool Content EOM (1,000 AC. FT.) | 22.9 | 22.5 | 22.3 | 22.7 | 34.1 | 22.4 | 27.6 | 31.3 | 36.7 | 34.0 | 33.1 | 33.2 | |
| | | | | | | | | | | | | | |
| GREERS FERRY LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1965 thru 2000 | 40.8 | 120.5 | 174.3 | 131.5 | 149.3 | 222.0 | 212.7 | 138.4 | 52.1 | 10.7 | 6.4 | 20.2 | 1279.1 |
| WY 2000 | 0.6 | 0.5 | 85.7 | 65.9 | 86.4 | 92.8 | 96.3 | 137.0 | 100.7 | 5.7 | 0.8 | 0.7 | 673.3 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1965 thru 2000 | 36.9 | 36.4 | 89.1 | 136.2 | 136.0 | 145.1 | 141.0 | 124.0 | 95.2 | 96.3 | 80.9 | 46.7 | 1163.8 |
| WY 2000 | 41.9 | 15.6 | 4.5 | 7.6 | 6.7 | 53.4 | 63.5 | 30.2 | 129.8 | 50.7 | 84.1 | 42.7 | 530.7 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 4.2 | 5.7 | 4.4 | 3.3 | 3.6 | 4.6 | 4.9 | 5.3 | 3.9 | 3.2 | 2.8 | 3.7 | 49.7 |
| WY 2000 | 2.8 | 2.0 | 4.1 | 2.0 | 3.1 | 2.8 | 3.6 | 5.7 | 5.5 | 1.9 | 0.8 | 2.6 | 36.8 |
| Deviation | -1.4 | -3.7 | -0.3 | -1.3 | -0.5 | -1.8 | -1.3 | 0.4 | 1.6 | -1.4 | -1.9 | -1.1 | -12.9 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 453.22 | 452.36 | 455.00 | 456.80 | 459.24 | 460.28 | 460.98 | 464.03 | 462.77 | 460.93 | 457.42 | 455.39 | |
| Maximum | 454.99 | 453.26 | 455.05 | 456.85 | 459.24 | 460.71 | 461.02 | 464.03 | 464.07 | 462.78 | 460.99 | 457.45 | |
| Minimum | 453.15 | 452.35 | 452.28 | 454.96 | 456.64 | 459.22 | 459.28 | 460.97 | 462.57 | 460.89 | 457.39 | 455.39 | |
| Pool Content EOM (1,000 AC. FT.) | 1674.4 | 1649.4 | 1727.0 | 1781.0 | 1855.4 | 1887.8 | 1909.9 | 2007.0 | 1966.6 | 1908.3 | 1799.6 | 1738.7 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| JAMES W. TRIMBLE (L&D 13) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1971 thru 2000 | 1670.7 | 2370.6 | 2382.1 | 2089.5 | 1940.5 | 3643.6 | 3582.7 | 4089.4 | 3683.2 | 2037.7 | 1019.1 | 913.8 | 29422.8 |
| WY 2000 | 537.4 | 229.5 | 1621.6 | 854.0 | 775.1 | 2282.6 | 2282.6 | 3724.3 | 3716.6 | 3672.1 | 946.9 | 388.6 | 21031.4 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.5 | 4.6 | 3.4 | 2.5 | 3.1 | 3.9 | 3.9 | 5.2 | 3.9 | 3.4 | 2.2 | 3.1 | 42.7 |
| WY 2000 | 1.5 | 3.4 | 4.4 | 1.9 | 0.9 | 2.1 | 2.1 | 2.4 | 7.4 | 1.2 | 0.0 | 2.6 | 29.8 |
| Deviation | -1.9 | -1.2 | 1.0 | -0.6 | -2.2 | -1.8 | -1.8 | -2.8 | 3.5 | -2.2 | -2.2 | -0.5 | -12.9 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 392.33 | 391.50 | 391.45 | 391.99 | 391.73 | 389.63 | 391.86 | 391.31 | 388.93 | 391.70 | 392.07 | 391.34 | |
| Maximum | 392.40 | 392.43 | 392.47 | 392.58 | 392.59 | 392.56 | 392.50 | 392.13 | 393.07 | 392.03 | 392.59 | 392.59 | |
| Minimum | 390.80 | 391.08 | 389.66 | 391.10 | 391.14 | 389.34 | 389.59 | 388.82 | 388.47 | 388.93 | 390.89 | 391.13 | |
| Pool Content EOM (1,000 AC. FT.) | 61.4 | 55.8 | 55.5 | 59.0 | 57.3 | 44.4 | 58.2 | 54.5 | 40.6 | 57.1 | 59.6 | 54.7 | |
| | | | | | | | | | | | | | |
| OZARK-JETTA TAYLOR (L&D 12) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1972 thru 2000 | 1715.9 | 2580.9 | 2664.3 | 2243.9 | 2138.7 | 3998.4 | 3927.1 | 4338.8 | 3873.3 | 2154.6 | 1076.8 | 947.5 | 31660.1 |
| WY 2000 | 543.0 | 228.6 | 1904.6 | 949.5 | 909.1 | 2573.5 | 2573.5 | 4152.5 | 4338.0 | 4202.9 | 1006.4 | 419.7 | 23801.5 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.6 | 4.7 | 3.6 | 2.5 | 2.8 | 3.6 | 3.3 | 5.3 | 4.3 | 3.0 | 2.2 | 3.0 | 42.0 |
| WY 2000 | 1.5 | 2.0 | 5.4 | 2.0 | 1.4 | 1.6 | 1.6 | 4.9 | 8.7 | 1.1 | 0.0 | 2.3 | 32.4 |
| Deviation | -2.1 | -2.6 | 1.8 | -0.6 | -1.4 | -2.1 | -1.7 | -0.4 | 4.4 | -1.9 | -2.2 | -0.7 | -9.6 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 371.19 | 371.37 | 371.60 | 371.21 | 371.09 | 371.71 | 371.64 | 372.07 | 371.80 | 371.63 | 372.22 | 372.14 | |
| Maximum | 372.56 | 372.40 | 372.59 | 372.55 | 372.58 | 372.56 | 372.61 | 372.47 | 372.57 | 372.63 | 372.71 | 372.89 | |
| Minimum | 370.69 | 370.34 | 370.88 | 370.25 | 370.45 | 370.37 | 370.57 | 370.22 | 370.87 | 370.64 | 370.56 | 371.56 | |
| Pool Content EOM (1,000 AC. FT.) | 140.5 | 142.3 | 144.5 | 140.7 | 139.6 | 145.6 | 144.9 | 149.2 | 146.5 | 144.8 | 151.0 | 150.0 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| DARDANELLE (L&D 10) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1966 thru 2000 | 1738.8 | 2632.8 | 2746.4 | 2391.3 | 2232.4 | 4061.3 | 3964.9 | 4278.1 | 3787.4 | 2065.3 | 1017.2 | 940.8 | 31856.8 |
| WY 2000 | 486.9 | 216.5 | 1955.5 | 968.0 | 940.9 | 2656.4 | 2656.4 | 4230.0 | 4574.7 | 4106.0 | 903.5 | 359.5 | 24054.3 |
| | | | | | | | | | | | | | |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 4.0 | 4.8 | 4.0 | 2.6 | 3.1 | 3.8 | 4.2 | 5.6 | 3.3 | 2.9 | 2.1 | 2.9 | 43.2 |
| WY 2000 | 1.6 | 2.0 | 5.0 | 2.0 | 3.2 | 2.2 | 2.2 | 3.7 | 5.2 | 0.8 | 0.0 | 2.3 | 30.1 |
| Deviation | -2.4 | -2.8 | 1.0 | -0.7 | 0.1 | -1.6 | -2.0 | -1.9 | 1.9 | -2.1 | -2.1 | -0.6 | -13.1 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 338.36 | 337.89 | 338.00 | 337.45 | 337.85 | 337.63 | 337.31 | 338.01 | 337.95 | 337.82 | 337.63 | 337.74 | |
| Maximum | 338.38 | 338.34 | 338.52 | 338.32 | 338.53 | 338.56 | 338.35 | 338.28 | 338.26 | 338.23 | 338.17 | 338.29 | |
| Minimum | 336.97 | 337.36 | 337.21 | 337.16 | 336.89 | 337.00 | 336.95 | 337.24 | 337.07 | 337.31 | 337.20 | 337.15 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 498.9 | 482.5 | 486.2 | 467.8 | 481.2 | 473.8 | 463.1 | 486.6 | 484.5 | 480.2 | 473.8 | 477.5 | |
| | | | | | | | | | | | | | |
| BLUE MOUNTAIN LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1948 thru 2000 | 11.3 | 29.1 | 41.9 | 43.0 | 48.3 | 62.5 | 56.3 | 56.7 | 17.2 | 9.3 | 4.1 | 4.2 | 384.0 |
| WY 2000 | 1.6 | 2.7 | 54.7 | 11.4 | 14.5 | 19.3 | 19.0 | 9.7 | 41.0 | 2.3 | 0.1 | 0.4 | 176.7 |
| | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1948 thru 2000 | 5.7 | 17.1 | 42.4 | 44.9 | 43.8 | 49.5 | 47.5 | 53.5 | 35.2 | 16.9 | 9.2 | 5.7 | 371.2 |
| WY 2000 | 0.5 | 3.9 | 54.4 | 10.7 | 11.6 | 12.3 | 18.1 | 9.5 | 31.3 | 11.8 | 1.7 | 1.5 | 167.2 |
| | | | | | | | | | | | | | |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 4.2 | 5.1 | 4.3 | 3.3 | 3.2 | 4.2 | 4.4 | 6.3 | 4.2 | 3.6 | 2.7 | 3.7 | 49.2 |
| WY 2000 | 4.3 | 2.9 | 7.6 | 2.1 | 2.1 | 2.8 | 2.3 | 4.5 | 8.0 | 1.3 | 0.8 | 3.3 | 41.7 |
| Deviation | 0.1 | -2.2 | 3.2 | -1.2 | -1.2 | -1.4 | -2.1 | -1.8 | 3.8 | -2.4 | -1.9 | -0.4 | -7.5 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 384.70 | 384.23 | 384.27 | 384.41 | 385.25 | 387.21 | 387.27 | 387.07 | 389.55 | 386.49 | 385.23 | 384.58 | |
| Maximum | 384.70 | 384.92 | 395.47 | 384.95 | 386.19 | 387.65 | 388.59 | 388.27 | 393.09 | 389.49 | 386.49 | 385.23 | |
| Minimum | 384.12 | 384.13 | 384.21 | 384.17 | 384.13 | 384.81 | 387.11 | 386.93 | 387.05 | 386.49 | 385.23 | 384.56 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 26.8 | 25.3 | 25.5 | 25.9 | 28.5 | 34.8 | 35.0 | 34.4 | 43.2 | 32.4 | 28.4 | 26.4 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| ARTHUR V. ORMOND (L&D 9) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1776.9 | 2662.8 | 2909.1 | 2484.4 | 2300.0 | 4143.1 | 4080.0 | 4512.1 | 3861.0 | 2084.9 | 1040.8 | 955.7 | 32810.8 |
| WY 2000 | 538.6 | 238.4 | 2314.5 | 935.6 | 924.4 | 2556.2 | 2556.2 | 3972.1 | 4298.5 | 4031.1 | 935.9 | 383.3 | 23684.9 |
| | | | | | | | | | | | | | |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.7 | 4.9 | 4.2 | 2.6 | 3.1 | 3.8 | 4.2 | 4.7 | 3.4 | 2.6 | 2.2 | 2.7 | 42.1 |
| WY 2000 | 1.5 | 2.7 | 5.3 | 3.6 | 2.6 | 2.9 | 2.9 | 3.2 | 4.2 | 0.5 | 0.1 | 2.2 | 31.7 |
| Deviation | -2.2 | -2.2 | 1.1 | 1.1 | -0.6 | -0.9 | -1.3 | -1.5 | 0.9 | -2.1 | -2.2 | -0.5 | -10.4 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 286.63 | 285.90 | 286.41 | 286.57 | 283.99 | 283.60 | 285.43 | 284.99 | 284.27 | 285.57 | 286.12 | 284.50 | |
| Maximum | 287.85 | 287.06 | 287.43 | 287.10 | 287.11 | 286.96 | 287.25 | 286.55 | 288.50 | 287.23 | 287.27 | 287.09 | |
| Minimum | 283.98 | 283.73 | 283.82 | 283.72 | 283.81 | 283.60 | 283.60 | 283.44 | 283.67 | 283.76 | 283.99 | 283.76 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 62.6 | 58.6 | 61.4 | 62.2 | 48.7 | 46.8 | 56.1 | 53.8 | 50.2 | 56.9 | 59.8 | 51.3 | |
| | | | | | | | | | | | | | |
| TOAD SUCK FERRY (L&D 8) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1757.1 | 2722.8 | 3043.9 | 2658.3 | 2458.8 | 4350.2 | 4274.3 | 4574.0 | 3921.5 | 2089.8 | 1021.2 | 935.0 | 33806.9 |
| WY 2000 | 516.0 | 236.5 | 2193.0 | 913.3 | 893.3 | 2525.1 | 2525.1 | 3844.7 | 4264.4 | 4036.4 | 900.4 | 367.1 | 23215.3 |
| | | | | | | | | | | | | | |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.5 | 4.9 | 4.2 | 2.4 | 3.0 | 3.6 | 4.3 | 4.4 | 3.4 | 2.6 | 2.2 | 2.6 | 41.1 |
| WY 2000 | 1.5 | 2.7 | 3.8 | 3.0 | 2.8 | 3.0 | 3.0 | 4.2 | 4.8 | 0.4 | 0.0 | 2.7 | 31.8 |
| Deviation | -2.0 | -2.2 | -0.3 | 0.7 | -0.2 | -0.7 | -1.3 | -0.2 | 1.4 | -2.2 | -2.2 | 0.1 | -9.3 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 265.19 | 265.16 | 265.04 | 265.08 | 265.36 | 264.18 | 265.35 | 265.20 | 266.49 | 264.92 | 265.50 | 265.13 | |
| Maximum | 265.63 | 265.75 | 267.52 | 265.70 | 265.56 | 265.82 | 265.57 | 266.68 | 272.81 | 267.31 | 265.65 | 265.65 | |
| Minimum | 264.73 | 264.73 | 263.90 | 264.54 | 264.30 | 263.93 | 263.90 | 263.68 | 263.92 | 264.03 | 264.62 | 264.85 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 33.8 | 33.7 | 33.2 | 33.3 | 34.5 | 29.7 | 34.5 | 33.9 | 42.0 | 32.7 | 35.2 | 33.6 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| NIMROD LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1944 thru 2000 | 19.6 | 47.3 | 78.1 | 71.4 | 84.6 | 114.9 | 92.0 | 94.3 | 37.0 | 11.4 | 4.3 | 6.7 | 661.8 |
| WY 2000 | 0.8 | 4.9 | 113.7 | 15.0 | 43.9 | 41.0 | 37.2 | 44.9 | 90.5 | 2.6 | 0.1 | 0.1 | 394.8 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1944 thru 2000 | 10.9 | 34.3 | 75.0 | 75.0 | 75.5 | 103.2 | 87.6 | 93.5 | 55.5 | 24.7 | 8.7 | 8.3 | 652.2 |
| WY 2000 | 0.3 | 1.1 | 94.8 | 14.5 | 28.3 | 56.0 | 36.4 | 31.5 | 50.9 | 52.2 | 0.7 | 0.5 | 367.2 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 4.5 | 5.3 | 4.9 | 3.3 | 3.5 | 4.4 | 4.6 | 6.5 | 4.7 | 3.8 | 2.8 | 3.7 | 51.9 |
| WY 2000 | 5.0 | 2.3 | 8.6 | 2.1 | 2.7 | 2.7 | 2.8 | 5.6 | 8.0 | 1.1 | 0.9 | 3.2 | 44.9 |
| Deviation | 0.4 | -2.9 | 3.7 | -1.2 | -0.7 | -1.7 | -1.9 | -0.9 | 3.3 | -2.7 | -1.9 | -0.5 | -7.1 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 332.11 | 335.09 | 342.35 | 342.44 | 345.95 | 342.30 | 342.30 | 345.29 | 351.82 | 342.19 | 341.47 | 341.06 | |
| Maximum | 332.12 | 335.35 | 355.10 | 342.44 | 347.24 | 345.91 | 343.87 | 346.04 | 353.92 | 351.80 | 342.21 | 341.48 | |
| Minimum | 331.58 | 332.11 | 335.07 | 342.17 | 342.12 | 341.97 | 342.08 | 342.11 | 342.14 | 342.19 | 341.45 | 340.96 | |
| Pool Content EOM (1,000 AC. FT.) | 8.0 | 11.7 | 30.3 | 30.6 | 45.7 | 30.1 | 30.1 | 42.5 | 80.9 | 29.7 | 27.1 | 25.7 | |
| MURRAY (L&D 7) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1785.4 | 2830.6 | 3254.9 | 2821.1 | 2588.7 | 4512.9 | 4624.2 | 4874.4 | 4049.7 | 2135.2 | 1010.9 | 939.9 | 35428.0 |
| WY 2000 | 461.1 | 218.2 | 2284.6 | 1026.5 | 1012.7 | 2690.8 | 2690.8 | 4044.1 | 4479.9 | 4164.1 | 914.0 | 350.5 | 24337.4 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.2 | 5.0 | 4.1 | 2.7 | 3.3 | 4.2 | 4.4 | 4.7 | 3.0 | 2.8 | 2.2 | 2.8 | 42.4 |
| WY 2000 | 2.7 | 3.2 | 4.5 | 1.7 | 3.4 | 2.9 | 2.9 | 4.7 | 4.7 | 0.5 | 0.0 | 4.6 | 35.9 |
| Deviation | -0.5 | -1.7 | 0.4 | -1.0 | 0.1 | -1.4 | -1.6 | -0.0 | 1.7 | -2.3 | -2.2 | 1.8 | -6.5 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 249.36 | 249.23 | 249.27 | 249.24 | 248.52 | 248.22 | 249.41 | 249.36 | 247.86 | 249.23 | 249.12 | 249.96 | |
| Maximum | 250.57 | 249.44 | 249.49 | 249.40 | 249.46 | 249.63 | 249.78 | 249.48 | 249.55 | 249.46 | 250.21 | 250.16 | |
| Minimum | 249.12 | 248.98 | 247.68 | 248.73 | 248.46 | 247.36 | 248.17 | 247.37 | 247.16 | 247.19 | 248.76 | 248.82 | |
| Pool Content EOM (1,000 AC. FT.) | 90.8 | 89.5 | 89.9 | 89.6 | 82.7 | 80.0 | 91.3 | 90.8 | 76.8 | 89.5 | 88.3 | 97.0 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| DAVID D. TERRY (L&D 6) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1968 thru 2000 | 1778.9 | 2814.2 | 3334.5 | 2856.9 | 2676.8 | 4537.6 | 4582.4 | 4916.1 | 4087.1 | 2178.4 | 1040.7 | 925.3 | 35728.9 |
| WY 2000 | 529.1 | 284.7 | 2396.4 | 994.2 | 1012.6 | 2742.0 | 2742.0 | 4207.5 | 4617.4 | 4237.2 | 890.2 | 319.9 | 24973.1 |
| | | | | | | | | | | | | | |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.4 | 4.0 | 3.6 | 2.8 | 2.7 | 3.6 | 4.0 | 4.3 | 2.7 | 2.6 | 1.8 | 2.5 | 38.2 |
| WY 2000 | 2.8 | 2.8 | 4.9 | 1.4 | 4.0 | 2.7 | 2.7 | 4.0 | 2.8 | 0.5 | 0.0 | 2.8 | 31.3 |
| Deviation | -0.6 | -1.2 | 1.3 | -1.4 | 1.3 | -0.9 | -1.3 | -0.4 | 0.1 | -2.2 | -1.8 | 0.3 | -6.8 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 231.47 | 230.94 | 230.88 | 231.28 | 230.93 | 230.38 | 230.98 | 230.95 | 229.86 | 230.36 | 231.28 | 231.22 | |
| Maximum | 231.56 | 231.52 | 231.59 | 231.48 | 231.50 | 231.43 | 231.56 | 231.54 | 231.47 | 231.63 | 231.60 | 231.75 | |
| Minimum | 230.73 | 230.76 | 229.95 | 230.43 | 230.17 | 229.60 | 230.09 | 229.91 | 229.20 | 229.28 | 230.37 | 230.63 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 51.7 | 49.3 | 49.1 | 50.8 | 49.2 | 47.1 | 49.4 | 49.3 | 45.1 | 47.1 | 50.8 | 50.5 | |
| | | | | | | | | | | | | | |
| LOCK AND DAM NO. 5 | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1842.5 | 2875.8 | 3313.9 | 2876.9 | 2647.0 | 4545.4 | 4624.8 | 4969.3 | 4134.7 | 2181.2 | 1044.9 | 965.8 | 36022.2 |
| WY 2000 | 513.6 | 272.3 | 2372.9 | 994.0 | 979.8 | 2732.6 | 2732.6 | 4066.6 | 4484.5 | 4211.5 | 920.7 | 330.6 | 24611.8 |
| | | | | | | | | | | | | | |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.8 | 4.1 | 4.6 | 3.3 | 3.1 | 3.9 | 4.4 | 4.9 | 3.1 | 3.2 | 2.3 | 3.4 | 44.1 |
| WY 2000 | 1.8 | 2.0 | 4.4 | 1.2 | 1.7 | 2.3 | 2.3 | 4.2 | 6.3 | 0.8 | 0.0 | 2.8 | 30.0 |
| Deviation | -2.0 | -2.1 | -0.2 | -2.1 | -1.4 | -1.6 | -2.0 | -0.7 | 3.2 | -2.4 | -2.3 | -0.6 | -14.1 |
| | | | | | | | | | | | | | |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 213.04 | 213.31 | 213.26 | 213.17 | 213.27 | 212.42 | 213.29 | 213.71 | 211.77 | 213.46 | 213.85 | 213.33 | |
| Maximum | 213.68 | 213.39 | 213.47 | 213.48 | 213.47 | 213.45 | 213.44 | 213.99 | 213.86 | 214.09 | 213.94 | 214.18 | |
| Minimum | 212.81 | 212.85 | 211.87 | 212.78 | 212.00 | 211.95 | 212.13 | 212.03 | 210.95 | 211.73 | 213.39 | 213.25 | |
| | | | | | | | | | | | | | |
| Pool Content EOM (1,000 AC. FT.) | 61.6 | 63.5 | 63.2 | 62.5 | 63.2 | 57.6 | 63.4 | 66.4 | 53.6 | 64.6 | 67.4 | 63.7 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| EMMETT SANDERS (L&D 4) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1844.4 | 2892.5 | 3341.1 | 2893.0 | 2667.7 | 4637.8 | 4776.2 | 5105.7 | 4247.2 | 2189.4 | 1031.5 | 960.8 | 36587.2 |
| WY 2000 | 479.7 | 285.8 | 2382.1 | 1034.3 | 1031.5 | 2719.9 | 2719.9 | 4050.3 | 4436.1 | 4169.3 | 960.8 | 343.2 | 24612.8 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.5 | 4.5 | 5.1 | 3.4 | 3.6 | 4.2 | 4.4 | 4.5 | 3.5 | 3.1 | 2.3 | 2.6 | 44.9 |
| WY 2000 | 2.0 | 1.9 | 4.5 | 0.9 | 2.5 | 2.5 | 2.5 | 7.6 | 4.7 | 0.5 | 0.2 | 2.2 | 31.8 |
| Deviation | -1.5 | -2.7 | -0.6 | -2.4 | -1.1 | -1.8 | -2.0 | 3.0 | 1.2 | -2.6 | -2.1 | -0.4 | -13.1 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 196.32 | 196.29 | 195.92 | 196.36 | 196.19 | 195.39 | 196.20 | 195.86 | 195.14 | 195.68 | 196.26 | 196.18 | |
| Maximum | 196.48 | 196.53 | 196.48 | 196.52 | 196.51 | 196.52 | 196.58 | 196.50 | 197.54 | 196.43 | 196.65 | 196.70 | |
| Minimum | 195.80 | 195.83 | 194.79 | 195.58 | 195.26 | 194.91 | 195.05 | 194.96 | 194.12 | 194.41 | 195.55 | 195.86 | |
| Pool Content EOM (1,000 AC. FT.) | 72.5 | 72.3 | 70.0 | 72.8 | 71.7 | 67.1 | 71.7 | 69.6 | 65.8 | 68.7 | 72.1 | 71.6 | |
| LOCK AND DAM NO. 3 | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1841.9 | 2918.5 | 3390.8 | 2925.3 | 2693.7 | 4678.1 | 4861.2 | 5217.1 | 4333.3 | 2212.7 | 1018.0 | 945.5 | 37035.9 |
| WY 2000 | 455.4 | 271.4 | 2416.1 | 1260.3 | 1049.7 | 2725.7 | 2725.7 | 4019.5 | 4538.5 | 4176.9 | 923.8 | 356.3 | 24919.2 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.6 | 4.4 | 4.5 | 3.6 | 3.5 | 4.2 | 4.8 | 4.3 | 3.3 | 2.5 | 1.7 | 2.4 | 42.9 |
| WY 2000 | 2.2 | 2.2 | 3.7 | 0.9 | 1.5 | 2.4 | 2.4 | 5.7 | 4.0 | 0.5 | 0.0 | 1.4 | 26.9 |
| Deviation | -1.5 | -2.2 | -0.8 | -2.6 | -2.0 | -1.8 | -2.4 | 1.4 | 0.7 | -2.0 | -1.7 | -1.0 | -16.0 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 181.83 | 182.18 | 182.24 | 182.34 | 182.33 | 181.58 | 182.04 | 181.93 | 181.68 | 181.87 | 181.97 | 182.17 | |
| Maximum | 182.48 | 182.51 | 182.59 | 182.64 | 182.51 | 182.36 | 182.43 | 182.49 | 185.81 | 182.70 | 182.65 | 182.90 | |
| Minimum | 181.58 | 181.56 | 180.64 | 181.55 | 181.25 | 180.90 | 181.09 | 180.43 | 180.32 | 180.07 | 181.17 | 181.43 | |
| Pool Content EOM (1,000 AC. FT.) | 45.7 | 47.1 | 47.4 | 47.8 | 47.7 | 44.8 | 46.6 | 46.1 | 45.2 | 45.9 | 46.3 | 47.1 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
ARKANSAS RIVER BASIN

| WILBUR D. MILLS DAM (L&D 2) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ----- | | | | | | | | | | | | | |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1970 thru 2000 | 1780.7 | 2939.5 | 3524.0 | 3011.5 | 2770.5 | 4817.7 | 5054.2 | 5274.0 | 4354.2 | 2228.4 | 1022.5 | 952.8 | 37730.1 |
| WY 2000 | 446.8 | 273.3 | 2462.3 | 1119.1 | 1058.0 | 3556.4 | 2803.9 | 3959.9 | 4477.9 | 4245.0 | 941.2 | 334.5 | 25678.2 |
| Project Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1978 thru 2000 | 3.8 | 4.7 | 4.6 | 3.7 | 4.0 | 4.4 | 4.3 | 4.1 | 3.2 | 3.0 | 1.9 | 2.6 | 44.5 |
| WY 2000 | 1.8 | 3.8 | 3.9 | 0.9 | 2.0 | 4.0 | 3.6 | 6.0 | 4.5 | 1.0 | 0.0 | 1.2 | 32.6 |
| Deviation | -2.1 | -0.9 | -0.7 | -2.9 | -2.0 | -0.5 | -0.8 | 1.9 | 1.2 | -2.0 | -1.9 | -1.4 | -11.9 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 162.42 | 162.23 | 162.28 | 162.30 | 162.33 | 161.67 | 162.74 | 162.77 | 161.06 | 162.84 | 162.69 | 162.50 | |
| Maximum | 162.65 | 162.46 | 162.39 | 162.50 | 162.62 | 162.31 | 162.84 | 163.12 | 162.98 | 163.17 | 163.22 | 163.04 | |
| Minimum | 161.84 | 161.98 | 161.11 | 161.86 | 162.00 | 161.32 | 161.36 | 160.91 | 160.47 | 160.43 | 162.55 | 162.50 | |
| Pool Content EOM (1,000 AC. FT.) | 114.8 | 112.7 | 113.2 | 113.4 | 113.8 | 106.6 | 118.3 | 118.6 | 100.0 | 119.4 | 117.8 | 115.7 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
RED RIVER BASIN

| DEQUEEN LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1979 thru 2000 | 17.2 | 23.5 | 33.3 | 21.7 | 25.8 | 30.1 | 23.6 | 27.0 | 13.7 | 9.7 | 2.3 | 5.2 | 233.0 |
| WY 2000 | 0.4 | 1.2 | 25.6 | 5.4 | 22.9 | 15.2 | 11.1 | 14.0 | 42.8 | 0.5 | 0.1 | 0.1 | 139.1 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1979 thru 2000 | 10.4 | 21.1 | 35.4 | 23.6 | 22.4 | 29.6 | 23.2 | 24.5 | 18.2 | 10.2 | 3.8 | 4.8 | 227.1 |
| WY 2000 | 0.7 | 0.5 | 21.6 | 4.8 | 10.5 | 26.0 | 12.1 | 12.9 | 39.0 | 6.1 | 1.9 | 1.3 | 137.5 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1980 thru 2000 | 6.0 | 5.3 | 5.4 | 3.5 | 3.8 | 5.0 | 5.2 | 6.7 | 5.3 | 4.8 | 2.8 | 5.0 | 58.7 |
| WY 2000 | 3.4 | 2.2 | 5.6 | 1.9 | 3.3 | 5.2 | 5.8 | 6.1 | 10.1 | 1.5 | 0.1 | 3.7 | 48.9 |
| Deviation | -2.6 | -3.1 | 0.2 | -1.5 | -0.5 | 0.2 | 0.6 | -0.6 | 4.8 | -3.2 | -2.7 | -1.3 | -9.8 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 434.35 | 434.69 | 437.10 | 437.36 | 443.90 | 438.03 | 437.29 | 437.74 | 439.66 | 436.02 | 434.00 | 432.60 | |
| Maximum | 434.74 | 434.70 | 441.32 | 438.06 | 444.13 | 443.89 | 438.06 | 439.79 | 449.22 | 439.63 | 436.02 | 433.99 | |
| Minimum | 434.24 | 434.10 | 434.68 | 437.09 | 437.03 | 437.03 | 437.00 | 437.29 | 437.18 | 436.02 | 434.00 | 432.60 | |
| Pool Content EOM (1,000 AC. FT.) | 30.7 | 31.2 | 35.1 | 35.5 | 47.8 | 36.7 | 35.4 | 36.2 | 39.6 | 33.3 | 30.1 | 28.0 | |
| | | | | | | | | | | | | | |
| GILLHAM LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1976 thru 2000 | 22.9 | 37.2 | 54.0 | 36.6 | 41.4 | 59.7 | 43.4 | 42.3 | 21.0 | 15.9 | 3.3 | 6.6 | 384.2 |
| WY 2000 | 3.7 | 5.7 | 40.5 | 9.5 | 39.2 | 35.9 | 15.9 | 28.4 | 66.8 | 2.8 | 0.2 | 0.7 | 249.4 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1976 thru 2000 | 14.1 | 32.6 | 55.2 | 40.1 | 37.4 | 55.3 | 48.3 | 39.8 | 25.7 | 16.5 | 7.1 | 5.8 | 377.9 |
| WY 2000 | 2.6 | 1.0 | 40.5 | 9.2 | 18.8 | 52.4 | 19.9 | 22.7 | 53.1 | 22.2 | 3.4 | 2.5 | 248.1 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1980 thru 2000 | 5.6 | 5.5 | 5.4 | 3.5 | 3.9 | 5.0 | 5.0 | 6.6 | 5.2 | 5.0 | 2.6 | 4.9 | 58.1 |
| WY 2000 | 4.4 | 2.0 | 6.1 | 2.1 | 3.5 | 4.8 | 3.1 | 6.9 | 9.7 | 1.5 | 0.5 | 3.1 | 47.7 |
| Deviation | -1.3 | -3.4 | 0.7 | -1.4 | -0.4 | -0.2 | -1.9 | 0.3 | 4.5 | -3.5 | -2.2 | -1.8 | -10.4 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 498.94 | 502.37 | 502.31 | 502.50 | 515.14 | 505.04 | 502.05 | 505.86 | 513.96 | 501.19 | 498.13 | 496.41 | |
| Maximum | 500.09 | 502.37 | 512.95 | 503.68 | 516.42 | 515.08 | 505.01 | 508.60 | 524.16 | 513.89 | 501.19 | 498.12 | |
| Minimum | 497.96 | 498.94 | 502.08 | 502.19 | 502.14 | 502.05 | 502.05 | 502.05 | 502.25 | 501.19 | 498.13 | 496.19 | |
| Pool Content EOM (1,000 AC. FT.) | 29.0 | 33.5 | 33.5 | 33.7 | 54.0 | 37.4 | 33.1 | 38.6 | 51.9 | 31.9 | 28.0 | 25.9 | |

SUMMARY OF LAKE CONDITIONS FOR WATER YEAR 2000
LITTLE ROCK DISTRICT
RED RIVER BASIN

| DIERKS LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1976 thru 2000 | 6.6 | 11.1 | 20.7 | 13.9 | 15.5 | 21.9 | 14.6 | 14.4 | 8.4 | 5.4 | 1.0 | 2.0 | 135.3 |
| WY 2000 | 1.4 | 0.9 | 10.2 | 2.3 | 11.7 | 14.1 | 6.7 | 11.8 | 28.2 | 1.4 | 0.1 | 0.1 | 88.9 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1976 thru 2000 | 5.7 | 7.5 | 18.0 | 17.1 | 13.9 | 19.6 | 15.7 | 13.9 | 9.1 | 6.5 | 2.1 | 1.4 | 130.4 |
| WY 2000 | 4.6 | 0.4 | 10.6 | 1.7 | 5.0 | 11.0 | 9.4 | 10.2 | 17.5 | 13.0 | 1.1 | 0.8 | 85.3 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1980 thru 2000 | 5.8 | 5.4 | 5.7 | 3.7 | 4.2 | 5.2 | 4.9 | 6.3 | 4.9 | 4.8 | 2.6 | 4.6 | 58.2 |
| WY 2000 | 4.6 | 1.6 | 4.8 | 1.8 | 3.3 | 5.0 | 3.7 | 7.0 | 10.1 | 1.3 | 0.4 | 2.4 | 46.0 |
| Deviation | -1.2 | -3.8 | -1.0 | -1.9 | -0.9 | -0.2 | -1.2 | 0.7 | 5.2 | -3.5 | -2.2 | -2.2 | -12.2 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 520.49 | 520.86 | 520.41 | 520.82 | 526.12 | 528.14 | 526.03 | 527.03 | 533.66 | 525.68 | 524.25 | 523.49 | |
| Maximum | 523.69 | 520.87 | 526.27 | 521.17 | 526.12 | 529.23 | 528.13 | 529.16 | 538.30 | 533.63 | 525.67 | 524.24 | |
| Minimum | 520.38 | 520.29 | 520.41 | 520.14 | 520.53 | 526.02 | 526.03 | 526.00 | 526.36 | 525.67 | 524.23 | 523.42 | |
| Pool Content EOM (1,000 AC. FT.) | 22.8 | 23.2 | 22.7 | 23.2 | 29.8 | 32.7 | 29.7 | 31.1 | 41.4 | 29.2 | 27.3 | 26.4 | |
| | | | | | | | | | | | | | |
| MILLWOOD LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| ----- | | | | | | | | | | | | | |
| Inflows (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1973 thru 2000 | 204.2 | 404.6 | 607.9 | 457.2 | 480.7 | 663.4 | 532.7 | 568.4 | 405.5 | 181.2 | 89.8 | 108.3 | 4703.8 |
| WY 2000 | 33.0 | 18.0 | 165.1 | 62.4 | 158.8 | 280.8 | 248.9 | 418.0 | 828.9 | 202.6 | 56.4 | 67.7 | 2540.6 |
| Releases (1,000 AC. FT.) | | | | | | | | | | | | | |
| Avg WY 1967 thru 2000 | 161.8 | 338.5 | 560.5 | 442.8 | 464.2 | 599.2 | 496.8 | 576.2 | 389.9 | 156.4 | 75.4 | 118.3 | 4379.9 |
| WY 2000 | 21.6 | 17.0 | 162.2 | 56.6 | 125.4 | 288.9 | 264.0 | 408.3 | 804.4 | 234.1 | 18.5 | 83.4 | 2484.4 |
| Basin Rainfall (inches) | | | | | | | | | | | | | |
| Avg WY 1980 thru 2000 | 5.2 | 4.8 | 4.9 | 3.2 | 3.7 | 4.7 | 4.6 | 6.1 | 4.8 | 4.1 | 2.7 | 4.3 | 53.2 |
| WY 2000 | 3.5 | 1.6 | 4.6 | 2.2 | 3.0 | 4.9 | 4.1 | 6.4 | 9.6 | 0.9 | 0.2 | 3.1 | 44.2 |
| Deviation | -1.7 | -3.2 | -0.2 | -1.0 | -0.8 | 0.2 | -0.5 | 0.3 | 4.9 | -3.2 | -2.5 | -1.2 | -9.0 |
| Pool Elevation | | | | | | | | | | | | | |
| End of Month | 259.40 | 259.32 | 259.37 | 259.51 | 260.50 | 260.10 | 259.44 | 259.59 | 260.15 | 258.70 | 259.53 | 258.70 | |
| Maximum | 259.56 | 259.52 | 259.93 | 259.62 | 260.61 | 260.49 | 260.22 | 261.61 | 261.82 | 260.30 | 259.56 | 259.79 | |
| Minimum | 259.18 | 259.19 | 259.27 | 259.26 | 259.20 | 259.08 | 259.20 | 259.12 | 259.33 | 258.61 | 258.70 | 258.69 | |
| Pool Content EOM (1,000 AC. FT.) | 211.1 | 208.7 | 210.2 | 214.4 | 245.0 | 232.2 | 212.3 | 216.8 | 233.8 | 190.8 | 215.0 | 190.8 | |

FORT WORTH DISTRICT
RED RIVER BASIN

| COOPER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1991-2000 | 29.3 | 44.7 | 73.4 | 38.1 | 45.8 | 44.9 | 35.6 | 49.7 | 31.7 | 18.2 | 5.4 | 6.2 | 422.9 |
| WY2000 | 1.8 | 0.0 | 11.0 | 4.1 | 9.1 | 37.9 | 14.7 | 27.3 | 88.2 | 0.5 | 0.5 | 0.0 | 195.0 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1991-2000 | 5.9 | 26.4 | 54.0 | 33.9 | 34.5 | 59.4 | 34.5 | 31.0 | 18.9 | 9.5 | 4.7 | 0.9 | 313.6 |
| WY2000 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 43.5 | 12.6 | 0.3 | 0.6 | 58.9 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1991-2000 | 4.39 | 4.11 | 4.06 | 3.33 | 2.86 | 3.48 | 3.70 | 4.70 | 3.40 | 2.52 | 1.49 | 3.26 | 41.31 |
| WY2000 | 1.80 | 1.00 | 3.57 | 1.25 | 2.89 | 4.26 | 4.34 | 8.12 | 10.04 | 2.60 | 0.00 | 0.70 | 40.57 |
| Deviation | -2.59 | -3.11 | -0.49 | -2.08 | 0.03 | 0.78 | 0.64 | 3.42 | 6.64 | 0.09 | -1.49 | -2.56 | -0.73 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 434.94 | 434.70 | 435.14 | 435.20 | 435.51 | 437.50 | 437.99 | 439.07 | 440.95 | 439.71 | 438.85 | 438.20 | |
| Maximum | 435.21 | 434.94 | 435.21 | 435.20 | 435.51 | 437.50 | 438.15 | 439.12 | 441.78 | 440.98 | 439.69 | 438.83 | |
| Minimum | 434.86 | 434.70 | 434.66 | 435.05 | 435.05 | 435.47 | 437.51 | 438.00 | 439.04 | 439.71 | 438.85 | 438.20 | |
| Pool Content (EOM) (1000 Ac-Ft) | 221.68 | 218.16 | 224.93 | 225.71 | 230.77 | 264.01 | 272.88 | 292.65 | 328.90 | 304.74 | 288.56 | 276.66 | |

RED RIVER BASIN

| WRIGHT PATMAN LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1957-2000 | 64.9 | 171.4 | 299.1 | 195.9 | 262.5 | 330.0 | 279.0 | 369.4 | 184.1 | 70.9 | 27.0 | 30.7 | 2284.7 |
| WY2000 | 7.8 | 0.0 | 0.0 | 12.4 | 31.4 | 165.8 | 161.3 | 352.7 | 535.2 | 198.8 | 0.0 | 1.7 | 1467.1 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1956-2000 | 94.9 | 156.4 | 253.5 | 261.2 | 246.9 | 294.0 | 226.1 | 231.8 | 218.1 | 199.4 | 66.4 | 34.6 | 2283.4 |
| WY2000 | 10.1 | 6.4 | 8.8 | 25.1 | 6.1 | 79.7 | 152.2 | 227.5 | 460.4 | 333.6 | 14.4 | 6.6 | 1330.8 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1957-2000 | 4.00 | 3.75 | 4.03 | 2.71 | 3.12 | 3.97 | 4.32 | 4.34 | 3.81 | 2.83 | 2.28 | 3.48 | 42.65 |
| WY2000 | 4.29 | 0.62 | 3.53 | 1.31 | 2.78 | 5.36 | 4.95 | 7.42 | 8.26 | 0.55 | 1.27 | 2.22 | 42.57 |
| Deviation | 0.29 | -3.13 | -0.50 | -1.40 | -0.34 | 1.39 | 0.63 | 3.08 | 4.45 | -2.28 | -1.01 | -1.26 | -0.08 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 224.06 | 223.48 | 223.65 | 222.79 | 223.46 | 226.10 | 226.03 | 229.41 | 230.77 | 226.72 | 225.50 | 224.74 | |
| Maximum | 224.47 | 224.08 | 223.90 | 223.51 | 223.46 | 226.15 | 227.17 | 229.51 | 230.77 | 231.11 | 226.65 | 225.46 | |
| Minimum | 223.96 | 223.48 | 223.45 | 222.56 | 222.76 | 223.60 | 225.88 | 226.06 | 226.55 | 226.72 | 225.50 | 224.74 | |
| Pool Content (EOM) (1000 Ac-Ft) | 241.84 | 225.99 | 230.76 | 208.55 | 225.47 | 301.59 | 299.42 | 414.84 | 467.16 | 320.91 | 283.26 | 260.92 | |

FORT WORTH DISTRICT
RED RIVER BASIN

| LAKE O'THE PINES Inflow (1000 AF) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Avg 1958-2000 | 13.0 | 32.3 | 66.0 | 65.3 | 75.3 | 98.8 | 75.0 | 69.5 | 36.0 | 15.0 | 5.9 | 9.8 | 561.9 |
| WY2000 | 4.7 | 1.7 | 10.1 | 8.6 | 10.7 | 34.8 | 35.3 | 105.4 | 84.0 | 25.2 | 0.0 | 0.1 | 320.8 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1957-2000 | 10.4 | 18.7 | 48.1 | 62.6 | 71.7 | 80.4 | 65.1 | 52.7 | 39.6 | 17.2 | 8.6 | 10.0 | 485.2 |
| WY2000 | 3.3 | 3.1 | 3.2 | 4.0 | 4.5 | 5.8 | 36.8 | 55.3 | 97.2 | 37.6 | 3.2 | 3.1 | 257.0 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1979-2000 | 5.03 | 4.47 | 4.93 | 3.64 | 3.68 | 4.05 | 3.71 | 4.48 | 4.50 | 2.43 | 1.83 | 3.11 | 45.85 |
| WY2000 | 5.47 | 0.50 | 4.35 | 3.26 | 2.46 | 7.21 | 5.09 | 7.77 | 4.69 | 1.59 | 0.13 | 1.78 | 44.30 |
| Deviation | 0.44 | -3.97 | -0.58 | -0.38 | -1.22 | 3.16 | 1.38 | 3.29 | 0.19 | -0.84 | -1.70 | -1.33 | -1.54 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 227.97 | 227.70 | 227.91 | 228.04 | 228.23 | 229.58 | 229.27 | 231.45 | 230.54 | 229.61 | 228.64 | 228.04 | |
| Maximum | 228.21 | 228.04 | 228.08 | 228.04 | 228.23 | 229.58 | 229.95 | 232.32 | 231.30 | 230.99 | 229.57 | 228.61 | |
| Minimum | 227.90 | 227.70 | 227.69 | 227.85 | 227.99 | 228.22 | 229.15 | 229.30 | 230.34 | 229.61 | 228.64 | 227.98 | |
| Pool Content (EOM) (1000 Ac-Ft) | 232.40 | 228.03 | 231.43 | 233.38 | 236.71 | 261.70 | 255.71 | 299.22 | 280.74 | 262.09 | 243.87 | 233.54 | |

NECHES RIVER BASIN

| SAM RAYBURN LAKE Inflow (1000 AF) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Avg 1908-2000 | 50.0 | 97.2 | 197.1 | 282.2 | 283.4 | 299.8 | 283.5 | 302.8 | 146.5 | 60.2 | 39.4 | 35.0 | 2077.0 |
| WY2000 | 34.5 | 0.0 | 53.9 | 18.8 | 36.0 | 130.0 | 231.5 | 340.0 | 122.4 | 14.4 | 5.7 | 11.9 | 999.2 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1965-2000 | 86.7 | 67.2 | 61.9 | 111.3 | 163.0 | 261.4 | 240.6 | 219.6 | 200.8 | 182.1 | 142.5 | 104.5 | 1841.6 |
| WY2000 | 162.0 | 144.1 | 104.2 | 85.7 | 75.6 | 0.0 | 4.5 | 52.3 | 27.4 | 39.1 | 44.8 | 26.9 | 766.7 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1969-2000 | 4.94 | 5.29 | 5.99 | 5.61 | 4.35 | 5.13 | 4.33 | 5.46 | 5.45 | 4.00 | 3.73 | 3.76 | 58.02 |
| WY2000 | 2.55 | 0.79 | 5.05 | 1.41 | 1.67 | 6.50 | 5.96 | 6.45 | 3.17 | 0.80 | 1.80 | 3.47 | 39.62 |
| Deviation | -2.39 | -4.50 | -0.94 | -4.20 | -2.68 | 1.37 | 1.63 | 0.99 | -2.28 | -3.20 | -1.93 | -0.29 | -18.40 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 157.87 | 156.01 | 155.17 | 154.19 | 153.50 | 154.72 | 156.90 | 159.35 | 159.46 | 158.15 | 156.99 | 156.10 | |
| Maximum | 159.49 | 157.81 | 156.05 | 155.12 | 154.17 | 154.72 | 156.96 | 159.35 | 159.66 | 159.43 | 158.10 | 156.96 | |
| Minimum | 157.87 | 156.01 | 155.17 | 154.19 | 153.46 | 153.50 | 154.72 | 157.03 | 159.38 | 158.15 | 156.99 | 156.10 | |
| Pool Content (EOM) (1000 Ac-Ft) | 2207.10 | 2031.70 | 1956.40 | 1869.90 | 1810.40 | 1916.40 | 2114.50 | 2353.40 | 2364.50 | 2235.30 | 2123.90 | 2040.90 | |

FORT WORTH DISTRICT
NECHES RIVER BASIN

| B.A. STEINHAGEN LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1908-2000 | 98.6 | 163.2 | 287.7 | 446.4 | 460.1 | 543.2 | 521.6 | 576.2 | 316.4 | 176.1 | 103.7 | 85.6 | 3778.9 |
| WY2000 | 185.6 | 170.5 | 150.7 | 116.8 | 112.9 | 63.0 | 108.8 | 225.0 | 184.2 | 119.7 | 74.8 | 80.1 | 1592.1 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1951-2000 | 130.9 | 159.4 | 264.0 | 379.8 | 414.0 | 520.8 | 474.8 | 549.6 | 344.1 | 238.3 | 148.8 | 125.6 | 3750.1 |
| WY2000 | 179.4 | 169.8 | 153.1 | 153.2 | 101.6 | 42.7 | 82.1 | 207.9 | 177.5 | 102.8 | 61.3 | 72.8 | 1504.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1969-2000 | 3.94 | 4.72 | 5.59 | 4.94 | 3.90 | 4.33 | 4.21 | 5.68 | 5.48 | 3.21 | 3.38 | 4.02 | 53.39 |
| WY2000 | 2.41 | 0.86 | 5.56 | 1.35 | 0.83 | 3.56 | 3.93 | 6.48 | 5.37 | 1.22 | 3.42 | 5.26 | 40.25 |
| Deviation | -1.53 | -3.86 | -0.03 | -3.59 | -3.07 | -0.77 | -0.28 | 0.80 | -0.11 | -1.99 | 0.04 | 1.24 | -13.14 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 82.45 | 81.94 | 81.26 | 76.49 | 77.57 | 79.60 | 81.63 | 82.20 | 81.99 | 82.38 | 82.41 | 82.45 | |
| Maximum | 82.76 | 82.69 | 82.88 | 81.20 | 77.60 | 79.60 | 82.94 | 82.67 | 82.69 | 82.60 | 83.17 | 83.03 | |
| Minimum | 82.10 | 81.76 | 81.26 | 75.94 | 76.08 | 77.24 | 79.63 | 81.54 | 81.61 | 81.96 | 82.37 | 82.30 | |
| Pool Content (EOM) (1000 Ac-Ft) | 86.93 | 80.54 | 72.57 | 31.04 | 38.56 | 55.51 | 76.71 | 83.63 | 81.03 | 86.04 | 86.29 | 86.93 | |

TRINITY RIVER BASIN

| BENBROOK LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 4.1 | 3.6 | 6.4 | 7.7 | 10.6 | 14.1 | 7.9 | 2.3 | 1.8 | 1.6 | 3.3 | 2.5 | 65.9 |
| WY2000 | 2.2 | 4.3 | 5.7 | 4.6 | 3.6 | 7.5 | 6.7 | 5.4 | 39.9 | 1.8 | 1.7 | 0.6 | 84.0 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1952-2000 | 1.2 | 5.0 | 3.0 | 4.5 | 4.2 | 9.2 | 5.8 | 13.0 | 12.2 | 3.2 | 1.2 | 1.0 | 63.5 |
| WY2000 | 0.2 | 0.1 | 0.1 | 0.1 | 1.2 | 1.5 | 0.1 | 0.2 | 21.5 | 0.5 | 1.7 | 2.9 | 30.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | 3.47 | 2.24 | 2.18 | 1.66 | 1.99 | 2.53 | 3.53 | 4.60 | 3.19 | 2.10 | 2.02 | 3.09 | 32.60 |
| WY2000 | 1.99 | 0.77 | 2.08 | 2.06 | 1.42 | 3.18 | 1.58 | 2.39 | 8.86 | 0.02 | 0.00 | 0.14 | 24.49 |
| Deviation | -1.48 | -1.47 | -0.10 | 0.40 | -0.57 | 0.65 | -1.95 | -2.21 | 5.67 | -2.08 | -2.02 | -2.95 | -8.11 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 685.22 | 686.23 | 687.73 | 688.87 | 689.29 | 690.78 | 692.31 | 693.18 | 694.51 | 690.84 | 686.21 | 682.51 | |
| Maximum | 685.45 | 686.25 | 687.73 | 688.87 | 689.29 | 690.78 | 692.31 | 693.39 | 699.92 | 694.41 | 690.71 | 686.07 | |
| Minimum | 684.79 | 685.28 | 686.21 | 687.79 | 688.81 | 689.30 | 690.89 | 692.43 | 693.07 | 690.84 | 686.21 | 682.51 | |
| Pool Content (EOM) (1000 Ac-Ft) | 57.15 | 60.09 | 64.61 | 68.15 | 69.49 | 74.37 | 79.62 | 82.68 | 87.51 | 74.54 | 60.03 | 49.62 | |

FORT WORTH DISTRICT
TRINITY RIVER BASIN

| JOE POOL LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1987-2000 | 7.5 | 5.3 | 14.2 | 5.8 | 12.7 | 10.5 | 11.5 | 20.4 | 12.1 | 1.4 | 2.4 | 1.9 | 105.8 |
| WY2000 | 1.2 | 0.5 | 3.1 | 1.4 | 2.5 | 5.3 | 1.7 | 2.8 | 58.7 | 2.1 | 1.3 | 0.0 | 80.6 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1986-2000 | 0.2 | 5.0 | 4.1 | 7.4 | 3.8 | 10.7 | 6.2 | 9.8 | 8.9 | 3.4 | 0.2 | 0.2 | 59.9 |
| WY2000 | 0.3 | 0.3 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 35.5 | 0.7 | 0.3 | 0.3 | 38.8 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1985-2000 | 4.61 | 3.22 | 3.70 | 1.99 | 2.92 | 2.77 | 3.34 | 4.75 | 4.43 | 1.43 | 1.94 | 2.66 | 37.76 |
| WY2000 | 2.74 | 0.93 | 4.63 | 1.81 | 1.35 | 3.39 | 3.19 | 4.58 | 10.44 | 0.06 | 0.00 | 0.14 | 33.26 |
| Deviation | -1.87 | -2.29 | 0.93 | -0.18 | -1.57 | 0.62 | -0.15 | -0.17 | 6.01 | -1.37 | -1.94 | -2.52 | -4.50 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 519.65 | 519.29 | 519.45 | 519.39 | 519.42 | 519.84 | 519.74 | 519.66 | 522.33 | 521.66 | 520.73 | 519.86 | |
| Maximum | 520.02 | 519.61 | 519.60 | 519.51 | 519.45 | 519.88 | 519.86 | 519.83 | 525.17 | 522.33 | 521.63 | 520.70 | |
| Minimum | 519.51 | 519.29 | 519.22 | 519.35 | 519.28 | 519.36 | 519.70 | 519.61 | 519.62 | 521.66 | 520.73 | 519.86 | |
| Pool Content (EOM) (1000 Ac-Ft) | 159.84 | 157.32 | 158.43 | 158.01 | 158.22 | 161.18 | 160.47 | 159.91 | 179.37 | 174.37 | 167.48 | 161.32 | |

TRINITY RIVER BASIN

| RAY ROBERTS LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 22.9 | 26.9 | 46.4 | 23.5 | 35.5 | 46.1 | 45.2 | 62.9 | 33.1 | 19.1 | 8.9 | 12.5 | 383.0 |
| WY2000 | 2.3 | 0.0 | 3.1 | 2.2 | 5.8 | 10.9 | 10.9 | 14.1 | 15.4 | 2.6 | 0.0 | 0.8 | 68.0 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1952-2000 | 7.7 | 8.3 | 23.6 | 13.9 | 16.6 | 36.2 | 23.8 | 44.0 | 34.4 | 31.8 | 9.2 | 4.8 | 254.4 |
| WY2000 | 8.8 | 8.8 | 9.2 | 9.6 | 9.1 | 9.8 | 9.2 | 6.2 | 4.5 | 4.6 | 62.6 | 26.1 | 168.4 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| WY2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Deviation | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 626.30 | 625.40 | 624.85 | 624.28 | 623.85 | 623.65 | 623.38 | 623.13 | 623.08 | 622.16 | 617.96 | 615.89 | |
| Maximum | 627.11 | 626.28 | 625.37 | 624.81 | 624.26 | 624.04 | 623.71 | 623.48 | 623.28 | 623.09 | 622.10 | 617.85 | |
| Minimum | 626.28 | 625.40 | 624.85 | 624.28 | 623.83 | 623.65 | 623.30 | 623.11 | 623.01 | 622.16 | 617.96 | 615.89 | |
| Pool Content (EOM) (1000 Ac-Ft) | 632.65 | 610.78 | 597.94 | 584.58 | 574.63 | 569.81 | 563.67 | 558.03 | 556.91 | 536.77 | 451.96 | 415.23 | |

FORT WORTH DISTRICT
TRINITY RIVER BASIN

| LEWISVILLE LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 41.2 | 33.5 | 35.6 | 28.6 | 50.0 | 65.2 | 73.6 | 102.1 | 59.5 | 23.6 | 12.6 | 26.3 | 551.8 |
| WY2000 | 16.3 | 14.7 | 22.1 | 17.5 | 20.1 | 25.3 | 25.9 | 26.9 | 19.4 | 6.7 | 65.0 | 33.5 | 293.3 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1952-2000 | 25.1 | 37.7 | 40.3 | 31.5 | 34.9 | 54.6 | 43.3 | 78.1 | 78.4 | 52.6 | 30.1 | 20.2 | 526.9 |
| WY2000 | 22.0 | 19.0 | 13.7 | 11.1 | 7.4 | 8.1 | 9.6 | 12.7 | 14.3 | 23.5 | 29.4 | 26.0 | 196.8 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | 3.67 | 2.48 | 2.46 | 1.77 | 2.16 | 3.10 | 3.87 | 4.85 | 3.55 | 2.14 | 1.90 | 3.65 | 35.59 |
| WY2000 | 1.90 | 0.13 | 2.89 | 1.97 | 1.88 | 0.81 | 3.61 | 5.48 | 5.78 | 0.16 | 0.00 | 0.45 | 25.06 |
| Deviation | -1.77 | -2.35 | 0.43 | 0.20 | -0.28 | -2.29 | -0.26 | 0.63 | 2.23 | -1.98 | -1.90 | -3.20 | -10.53 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 509.19 | 508.36 | 508.43 | 508.43 | 508.77 | 509.39 | 509.84 | 509.88 | 509.50 | 507.42 | 508.16 | 507.55 | |
| Maximum | 510.16 | 509.20 | 508.62 | 508.54 | 508.77 | 509.42 | 509.88 | 510.39 | 509.91 | 509.46 | 508.16 | 508.28 | |
| Minimum | 509.14 | 508.36 | 508.28 | 508.33 | 508.32 | 508.75 | 509.46 | 509.88 | 509.50 | 507.42 | 507.12 | 507.55 | |
| Pool Content (EOM) (1000 Ac-Ft) | 337.53 | 323.19 | 324.54 | 324.54 | 330.31 | 340.85 | 348.81 | 349.52 | 342.78 | 307.57 | 320.00 | 309.88 | |

TRINITY RIVER BASIN

| GRAPEVINE LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 11.5 | 7.9 | 9.8 | 9.5 | 15.5 | 18.0 | 23.8 | 32.3 | 18.2 | 5.4 | 1.8 | 5.1 | 158.8 |
| WY2000 | 2.3 | 0.0 | 1.9 | 1.5 | 3.0 | 2.9 | 5.0 | 8.3 | 5.1 | 0.8 | 1.9 | 0.6 | 33.5 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1952-2000 | 4.4 | 8.4 | 11.8 | 10.1 | 8.2 | 11.6 | 12.7 | 16.5 | 20.1 | 14.7 | 11.4 | 4.6 | 134.5 |
| WY2000 | 2.1 | 1.6 | 1.7 | 1.3 | 1.2 | 1.3 | 1.2 | 4.0 | 2.1 | 2.8 | 3.2 | 2.6 | 25.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | 3.48 | 2.49 | 2.31 | 1.76 | 2.16 | 2.80 | 3.92 | 4.97 | 3.20 | 2.21 | 1.88 | 3.32 | 34.51 |
| WY2000 | 2.46 | 0.62 | 3.09 | 1.91 | 3.17 | 2.50 | 3.96 | 4.06 | 5.71 | 0.07 | 0.00 | 0.29 | 27.84 |
| Deviation | -1.02 | -1.87 | 0.78 | 0.15 | 1.01 | -0.30 | 0.04 | -0.91 | 2.51 | -2.14 | -1.88 | -3.03 | -6.67 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 528.42 | 527.70 | 527.42 | 527.17 | 527.17 | 527.18 | 527.44 | 527.51 | 527.42 | 526.12 | 524.75 | 523.55 | |
| Maximum | 529.00 | 528.41 | 527.77 | 527.42 | 527.22 | 527.25 | 527.55 | 528.02 | 527.78 | 527.40 | 526.08 | 524.72 | |
| Minimum | 528.32 | 527.70 | 527.42 | 527.15 | 526.92 | 527.11 | 527.10 | 527.51 | 527.34 | 526.12 | 524.75 | 523.55 | |
| Pool Content (EOM) (1000 Ac-Ft) | 136.79 | 132.49 | 130.83 | 129.36 | 129.36 | 129.36 | 130.95 | 131.36 | 130.83 | 123.36 | 115.86 | 109.43 | |

FORT WORTH DISTRICT
TRINITY RIVER BASIN

| LAVON LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 17.3 | 24.5 | 32.6 | 28.2 | 42.3 | 45.8 | 53.7 | 71.6 | 39.6 | 13.6 | 4.1 | 11.2 | 384.6 |
| WY2000 | 11.2 | 10.3 | 38.4 | 13.8 | 26.7 | 43.5 | 35.3 | 48.1 | 117.8 | 5.7 | 7.5 | 3.4 | 361.6 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1953-2000 | 8.2 | 10.9 | 19.0 | 21.3 | 20.1 | 30.5 | 23.8 | 58.5 | 38.4 | 16.8 | 6.6 | 4.1 | 258.2 |
| WY2000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 0.0 | 5.4 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1953-2000 | 3.89 | 3.02 | 2.94 | 2.14 | 2.61 | 3.21 | 4.13 | 5.39 | 3.79 | 2.29 | 1.95 | 3.94 | 39.29 |
| WY2000 | 3.35 | 1.05 | 4.50 | 2.03 | 2.91 | 3.49 | 2.89 | 5.53 | 14.60 | 0.09 | 0.00 | 0.18 | 40.62 |
| Deviation | -0.54 | -1.97 | 1.56 | -0.11 | 0.30 | 0.28 | -1.24 | 0.14 | 10.81 | -2.20 | -1.95 | -3.75 | 1.33 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 484.41 | 483.58 | 484.73 | 484.44 | 484.93 | 486.31 | 487.02 | 488.07 | 492.30 | 490.31 | 487.63 | 485.19 | |
| Maximum | 485.51 | 484.44 | 484.94 | 484.71 | 484.93 | 486.34 | 487.07 | 488.11 | 492.47 | 492.29 | 490.23 | 487.54 | |
| Minimum | 484.31 | 483.58 | 483.46 | 484.38 | 484.20 | 484.93 | 486.25 | 487.28 | 487.99 | 490.31 | 487.63 | 485.19 | |
| Pool Content (EOM) (1000 Ac-Ft) | 311.27 | 297.19 | 316.79 | 311.79 | 320.10 | 344.65 | 357.84 | 377.54 | 462.96 | 421.21 | 369.03 | 324.83 | |

TRINITY RIVER BASIN

| NAVARRO MILLS LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1907-2000 | 6.2 | 7.0 | 11.6 | 10.2 | 12.0 | 13.5 | 17.0 | 27.5 | 14.2 | 3.3 | 1.9 | 2.7 | 127.1 |
| WY2000 | 1.2 | 0.5 | 1.4 | 0.5 | 2.0 | 2.5 | 10.9 | 8.2 | 59.3 | 1.2 | 0.9 | 1.0 | 89.5 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1962-2000 | 2.3 | 7.9 | 8.7 | 9.6 | 9.9 | 12.1 | 12.0 | 15.4 | 18.9 | 5.5 | 1.5 | 1.1 | 104.8 |
| WY2000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 46.3 | 0.5 | 0.0 | 0.0 | 46.8 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1962-2000 | 4.37 | 3.09 | 3.02 | 2.12 | 2.63 | 3.03 | 3.44 | 5.12 | 3.22 | 1.71 | 2.34 | 3.20 | 37.29 |
| WY2000 | 2.23 | 0.38 | 2.94 | 0.99 | 3.61 | 2.70 | 3.97 | 6.38 | 12.05 | 0.52 | 0.05 | 1.32 | 37.14 |
| Deviation | -2.14 | -2.71 | -0.08 | -1.13 | 0.98 | -0.33 | 0.53 | 1.26 | 8.83 | -1.19 | -2.29 | -1.88 | -0.15 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 421.63 | 421.22 | 421.11 | 420.88 | 420.95 | 421.12 | 423.12 | 424.18 | 424.98 | 424.06 | 423.06 | 422.35 | |
| Maximum | 422.02 | 421.62 | 421.36 | 421.12 | 421.12 | 421.18 | 423.34 | 424.27 | 430.47 | 424.97 | 424.03 | 423.04 | |
| Minimum | 421.51 | 421.22 | 421.11 | 420.84 | 420.67 | 420.70 | 421.19 | 423.16 | 424.13 | 424.06 | 423.06 | 422.35 | |
| Pool Content (EOM) (1000 Ac-Ft) | 43.41 | 41.65 | 41.18 | 40.16 | 40.50 | 41.22 | 50.12 | 55.35 | 59.42 | 54.76 | 49.83 | 46.58 | |

FORT WORTH DISTRICT
TRINITY RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| BARDWELL LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1938-2000 | 4.1 | 3.5 | 7.1 | 5.4 | 7.8 | 7.9 | 10.2 | 13.4 | 8.0 | 1.7 | 0.9 | 1.8 | 71.8 |
| WY2000 | 0.9 | 0.1 | 1.5 | 0.8 | 2.2 | 4.7 | 5.3 | 7.6 | 51.0 | 2.7 | 1.0 | 0.5 | 78.3 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1966-2000 | 1.1 | 4.9 | 5.6 | 7.5 | 6.1 | 9.5 | 6.8 | 10.2 | 12.4 | 1.6 | 0.2 | 0.4 | 66.3 |
| WY2000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 50.6 | 3.9 | 0.0 | 0.0 | 55.9 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1965-2000 | 4.39 | 3.00 | 3.08 | 2.40 | 2.82 | 3.16 | 3.48 | 5.02 | 3.58 | 2.09 | 2.17 | 3.46 | 38.64 |
| WY2000 | 2.16 | 0.33 | 3.01 | 1.79 | 1.87 | 6.98 | 2.91 | 5.97 | 7.49 | 0.30 | 0.08 | 0.43 | 33.32 |
| Deviation | -2.23 | -2.67 | -0.07 | -0.61 | -0.95 | 3.82 | -0.57 | 0.95 | 3.91 | -1.79 | -2.09 | -3.03 | -5.32 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 418.53 | 418.09 | 418.21 | 418.13 | 418.55 | 419.75 | 421.01 | 422.15 | 421.95 | 420.75 | 419.91 | 419.23 | |
| Maximum | 418.89 | 418.56 | 418.37 | 418.22 | 418.55 | 419.75 | 421.09 | 422.22 | 427.89 | 421.84 | 420.73 | 419.88 | |
| Minimum | 418.35 | 418.09 | 418.01 | 418.06 | 418.07 | 418.55 | 419.80 | 421.07 | 421.95 | 420.75 | 419.91 | 419.23 | |
| Pool Content (EOM) (1000 Ac-Ft) | 39.00 | 37.73 | 38.07 | 37.84 | 39.03 | 42.61 | 46.53 | 50.47 | 49.73 | 45.68 | 43.13 | 41.07 | |

BRAZOS RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WHITNEY LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1899-2000 | 108.8 | 63.3 | 74.8 | 55.5 | 71.2 | 80.4 | 133.2 | 261.5 | 174.5 | 87.2 | 67.0 | 97.7 | 1275.2 |
| WY2000 | 4.4 | 2.8 | 0.0 | 6.0 | 7.0 | 7.0 | 6.0 | 7.1 | 221.3 | 2.8 | 2.3 | 4.5 | 271.1 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1951-2000 | 76.5 | 53.3 | 45.6 | 66.1 | 57.8 | 91.6 | 70.7 | 194.9 | 183.2 | 68.9 | 50.9 | 55.6 | 1015.1 |
| WY2000 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 2.8 | 2.1 | 13.9 | 1.5 | 4.7 | 1.5 | 2.1 | 36.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | 3.45 | 2.42 | 2.37 | 1.88 | 2.15 | 2.49 | 3.50 | 4.52 | 3.44 | 2.03 | 2.27 | 3.06 | 33.58 |
| WY2000 | 1.25 | 0.50 | 1.74 | 1.94 | 1.24 | 2.20 | 2.29 | 2.86 | 10.95 | 0.02 | 0.00 | 0.74 | 25.73 |
| Deviation | -2.20 | -1.92 | -0.63 | 0.06 | -0.91 | -0.29 | -1.21 | -1.66 | 7.51 | -2.01 | -2.27 | -2.32 | -7.85 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 523.20 | 522.95 | 522.98 | 523.02 | 523.12 | 523.12 | 523.01 | 522.11 | 532.53 | 530.80 | 528.13 | 526.26 | |
| Maximum | 523.50 | 523.24 | 523.11 | 523.10 | 523.13 | 523.20 | 523.24 | 523.14 | 532.63 | 532.52 | 530.72 | 528.01 | |
| Minimum | 523.04 | 522.95 | 522.86 | 522.93 | 522.95 | 523.00 | 523.01 | 522.11 | 522.07 | 530.80 | 528.13 | 526.26 | |
| Pool Content (EOM) (1000 Ac-Ft) | 430.78 | 426.67 | 427.16 | 427.65 | 429.46 | 429.46 | 427.65 | 412.78 | 616.07 | 576.76 | 520.03 | 483.79 | |

FORT WORTH DISTRICT
BRAZOS RIVER BASIN

| AQUILLA LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1982-2000 | 5.4 | 3.5 | 14.3 | 5.8 | 11.0 | 10.6 | 7.9 | 10.1 | 10.7 | 1.1 | 1.6 | 1.5 | 83.6 |
| WY2000 | 0.6 | 0.2 | 1.0 | 0.6 | 0.8 | 2.4 | 0.7 | 1.1 | 57.7 | 2.3 | 0.8 | 0.8 | 69.0 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1982-2000 | 0.8 | 3.3 | 7.5 | 8.1 | 6.3 | 11.0 | 5.5 | 9.2 | 10.4 | 1.2 | 0.6 | 0.2 | 64.1 |
| WY2000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 40.5 | 4.2 | 0.1 | 0.1 | 45.9 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1984-2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| WY2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Deviation | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 534.45 | 534.06 | 534.06 | 533.94 | 533.91 | 534.45 | 534.27 | 534.09 | 538.53 | 537.19 | 536.40 | 535.69 | |
| Maximum | 534.82 | 534.45 | 534.24 | 534.09 | 533.94 | 534.51 | 534.52 | 534.34 | 543.03 | 538.39 | 537.17 | 536.37 | |
| Minimum | 534.28 | 534.06 | 533.95 | 533.94 | 533.78 | 533.76 | 534.25 | 534.09 | 534.07 | 537.19 | 536.40 | 535.69 | |
| Pool Content (EOM) (1000 Ac-Ft) | 36.93 | 35.93 | 35.93 | 35.63 | 35.55 | 36.96 | 36.46 | 36.01 | 49.51 | 45.02 | 42.59 | 40.47 | |

BRAZOS RIVER BASIN

| WACO LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1907-2000 | 22.4 | 14.9 | 25.9 | 19.5 | 30.4 | 31.8 | 44.5 | 66.8 | 34.3 | 12.0 | 8.8 | 15.2 | 326.6 |
| WY2000 | 1.3 | 0.5 | 2.0 | 1.7 | 7.9 | 6.8 | 10.6 | 7.8 | 39.0 | 1.1 | 0.8 | 0.8 | 80.4 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1965-2000 | 5.5 | 10.8 | 18.9 | 28.5 | 27.3 | 47.8 | 32.4 | 61.5 | 36.8 | 8.7 | 4.6 | 5.2 | 288.0 |
| WY2000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.7 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1962-2000 | 3.57 | 2.71 | 2.54 | 2.11 | 2.59 | 2.72 | 3.26 | 4.79 | 3.11 | 2.10 | 2.31 | 3.43 | 35.22 |
| WY2000 | 1.88 | 0.28 | 3.00 | 2.31 | 4.24 | 2.73 | 3.40 | 5.65 | 7.32 | 0.56 | 0.14 | 0.89 | 32.40 |
| Deviation | -1.69 | -2.43 | 0.46 | 0.20 | 1.65 | 0.01 | 0.14 | 0.86 | 4.21 | -1.54 | -2.17 | -2.54 | -2.82 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 450.67 | 449.94 | 449.58 | 449.23 | 449.92 | 450.38 | 451.31 | 451.52 | 456.27 | 455.04 | 453.54 | 452.32 | |
| Maximum | 451.50 | 450.64 | 449.92 | 449.56 | 449.92 | 450.41 | 451.47 | 451.58 | 456.27 | 456.25 | 455.00 | 453.50 | |
| Minimum | 450.55 | 449.94 | 449.58 | 449.23 | 448.96 | 449.92 | 450.34 | 451.41 | 451.47 | 455.04 | 453.54 | 452.32 | |
| Pool Content (EOM) (1000 Ac-Ft) | 115.56 | 110.97 | 108.74 | 106.60 | 110.84 | 113.66 | 119.68 | 121.04 | 154.21 | 145.21 | 134.55 | 126.26 | |

FORT WORTH DISTRICT
BRAZOS RIVER BASIN

| PROCTOR LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1922-2000 | 4.5 | 2.4 | 4.3 | 4.3 | 6.0 | 7.2 | 10.4 | 17.7 | 12.5 | 4.0 | 4.2 | 3.9 | 81.5 |
| WY2000 | 0.0 | 0.3 | 0.0 | 0.4 | 0.5 | 0.4 | 0.9 | 0.0 | 3.2 | 0.0 | 0.0 | 0.1 | 5.8 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1963-2000 | 3.2 | 4.1 | 4.1 | 5.8 | 5.8 | 9.0 | 12.1 | 21.4 | 20.0 | 19.8 | 10.9 | 6.3 | 122.4 |
| WY2000 | 1.1 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 2.4 | 1.0 | 1.8 | 1.2 | 0.9 | 11.0 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1963-2000 | 3.01 | 2.03 | 1.67 | 1.46 | 1.97 | 2.12 | 2.89 | 4.81 | 3.64 | 1.67 | 2.43 | 3.33 | 31.01 |
| WY2000 | 1.43 | 0.00 | 1.77 | 1.50 | 1.06 | 1.23 | 2.75 | 2.31 | 5.74 | 0.00 | 0.00 | 0.56 | 18.35 |
| Deviation | -1.58 | -2.03 | 0.10 | 0.04 | -0.91 | -0.89 | -0.14 | -2.50 | 2.10 | -1.67 | -2.43 | -2.77 | -12.66 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 1152.30 | 1151.70 | 1151.50 | 1151.20 | 1151.00 | 1150.70 | 1150.40 | 1148.40 | 1149.00 | 1146.60 | 1144.60 | 1143.10 | |
| Maximum | 1153.00 | 1152.20 | 1152.40 | 1151.60 | 1151.40 | 1151.00 | 1151.00 | 1150.60 | 1149.60 | 1149.00 | 1146.60 | 1144.50 | |
| Minimum | 1152.10 | 1151.70 | 1151.50 | 1151.20 | 1151.00 | 1150.70 | 1150.40 | 1148.40 | 1148.20 | 1146.60 | 1144.60 | 1143.10 | |
| Pool Content (EOM) (1000 Ac-Ft) | 22.73 | 21.49 | 21.10 | 20.54 | 20.02 | 19.31 | 18.86 | 120.91 | 16.10 | 11.87 | 8.88 | 7.02 | |

BRAZOS RIVER BASIN

| BELTON LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1908-2000 | 28.6 | 20.2 | 35.6 | 32.4 | 42.7 | 44.4 | 63.1 | 99.7 | 54.8 | 26.2 | 16.0 | 24.8 | 488.5 |
| WY2000 | 1.4 | 0.0 | 2.4 | 3.4 | 7.5 | 6.6 | 17.3 | 8.1 | 41.3 | 0.4 | 0.7 | 5.6 | 94.7 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1954-2000 | 18.2 | 18.4 | 19.7 | 32.1 | 26.4 | 55.6 | 52.4 | 66.1 | 66.2 | 50.1 | 20.9 | 11.7 | 437.8 |
| WY2000 | 4.0 | 1.8 | 2.2 | 2.4 | 2.2 | 2.1 | 2.1 | 2.0 | 1.5 | 2.0 | 2.1 | 2.7 | 27.1 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1953-2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| WY2000 | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Deviation | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 590.25 | 589.51 | 589.05 | 588.70 | 588.69 | 588.57 | 589.31 | 589.09 | 591.78 | 590.40 | 588.92 | 588.15 | |
| Maximum | 591.22 | 590.25 | 589.48 | 589.06 | 588.74 | 588.78 | 589.53 | 589.46 | 591.91 | 591.77 | 590.36 | 588.87 | |
| Minimum | 590.14 | 589.51 | 589.05 | 588.70 | 588.45 | 588.57 | 588.59 | 589.04 | 589.03 | 590.40 | 588.92 | 587.95 | |
| Pool Content (EOM) (1000 Ac-Ft) | 389.93 | 381.37 | 376.29 | 372.25 | 372.25 | 370.80 | 379.22 | 376.74 | 407.79 | 391.54 | 374.71 | 366.25 | |

FORT WORTH DISTRICT
BRAZOS RIVER BASIN

| STILLHOUSE HOLLOW Inflow (1000 AF) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Avg 1924-2000 | 12.2 | 8.7 | 15.7 | 16.1 | 25.9 | 26.6 | 25.5 | 42.0 | 18.0 | 9.7 | 4.2 | 9.0 | 213.4 |
| WY2000 | 0.9 | 0.2 | 1.8 | 2.0 | 4.9 | 3.6 | 11.8 | 4.4 | 7.8 | 0.3 | 1.0 | 2.2 | 40.9 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1966-2000 | 5.1 | 5.9 | 8.4 | 18.2 | 16.7 | 24.8 | 25.9 | 30.5 | 24.5 | 21.5 | 5.1 | 3.6 | 190.1 |
| WY2000 | 0.1 | 0.1 | 0.1 | 0.1 | 6.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.7 | 0.4 | 13.4 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1966-2000 | 3.53 | 2.47 | 2.43 | 1.85 | 2.49 | 2.52 | 2.83 | 4.67 | 3.50 | 1.89 | 2.13 | 3.73 | 34.04 |
| WY2000 | 1.84 | 0.20 | 2.10 | 2.10 | 2.23 | 3.34 | 4.53 | 4.30 | 3.56 | 0.06 | 0.14 | 5.14 | 29.54 |
| Deviation | -1.69 | -2.27 | -0.33 | 0.25 | -0.26 | 0.82 | 1.70 | -0.37 | 0.06 | -1.83 | -1.99 | 1.41 | -4.50 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 620.22 | 619.90 | 619.85 | 619.86 | 619.23 | 619.46 | 620.91 | 621.00 | 621.68 | 620.76 | 618.97 | 618.53 | |
| Maximum | 620.61 | 620.20 | 619.97 | 619.95 | 620.01 | 619.46 | 621.00 | 621.06 | 621.79 | 621.66 | 620.72 | 618.90 | |
| Minimum | 620.12 | 619.90 | 619.82 | 619.80 | 619.22 | 619.22 | 619.54 | 620.90 | 620.94 | 620.76 | 618.97 | 618.35 | |
| Pool Content (EOM) (1000 Ac-Ft) | 214.85 | 212.88 | 212.64 | 212.70 | 208.88 | 210.26 | 219.12 | 219.75 | 224.04 | 218.19 | 207.26 | 204.70 | |

BRAZOS RIVER BASIN

| GEORGETOWN LAKE Inflow (1000 AF) | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Avg 1980-2000 | 6.1 | 4.1 | 11.6 | 7.3 | 13.6 | 12.4 | 6.8 | 13.6 | 22.9 | 8.2 | 1.8 | 3.9 | 112.3 |
| WY2000 | 0.0 | 0.0 | 0.1 | 0.3 | 0.7 | 0.5 | 0.8 | 1.0 | 2.9 | 0.3 | 0.9 | 0.1 | 7.6 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1979-2000 | 0.8 | 1.0 | 2.5 | 3.3 | 4.9 | 8.8 | 5.1 | 5.8 | 9.1 | 9.4 | 0.4 | 1.4 | 52.4 |
| WY2000 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1.7 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1980-2000 | 3.75 | 3.20 | 2.69 | 1.82 | 2.57 | 2.87 | 2.81 | 4.98 | 4.52 | 1.38 | 1.90 | 3.21 | 35.68 |
| WY2000 | 1.52 | 0.16 | 1.64 | 2.49 | 1.40 | 2.75 | 1.92 | 5.44 | 5.14 | 0.43 | 0.22 | 3.22 | 26.33 |
| Deviation | -2.23 | -3.04 | -1.05 | 0.67 | -1.17 | -0.12 | -0.89 | 0.46 | 0.62 | -0.95 | -1.68 | 0.01 | -9.35 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 784.68 | 783.01 | 781.72 | 780.87 | 780.34 | 779.56 | 778.70 | 777.85 | 779.09 | 775.99 | 772.39 | 769.03 | |
| Maximum | 786.66 | 784.62 | 782.95 | 781.68 | 780.86 | 780.31 | 779.56 | 779.11 | 779.41 | 779.02 | 775.89 | 772.25 | |
| Minimum | 784.68 | 783.01 | 781.72 | 780.87 | 780.22 | 779.56 | 778.70 | 777.85 | 777.50 | 775.99 | 772.39 | 769.03 | |
| Pool Content (EOM) (1000 Ac-Ft) | 29.37 | 27.52 | 26.15 | 25.26 | 24.72 | 23.95 | 23.12 | 22.31 | 23.49 | 20.59 | 17.53 | 14.92 | |

FORT WORTH DISTRICT
BRAZOS RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GRANGER LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1980-2000 | 9.8 | 7.5 | 19.0 | 14.2 | 22.7 | 22.3 | 18.2 | 27.8 | 31.4 | 12.7 | 3.2 | 6.1 | 195.1 |
| WY2000 | 1.5 | 1.2 | 2.0 | 2.9 | 2.4 | 2.8 | 3.3 | 8.2 | 2.8 | 0.5 | 0.9 | 1.2 | 29.7 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1979-2000 | 4.9 | 7.2 | 11.6 | 14.5 | 15.7 | 23.9 | 17.6 | 25.0 | 26.1 | 23.7 | 2.2 | 4.1 | 176.4 |
| WY2000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 5.4 | 0.3 | 1.5 | 1.6 | 0.2 | 11.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1980-2000 | 3.45 | 2.54 | 3.17 | 2.02 | 2.29 | 2.45 | 2.09 | 5.12 | 4.22 | 1.07 | 1.39 | 3.11 | 32.93 |
| WY2000 | 1.68 | 0.05 | 1.14 | 4.13 | 1.42 | 1.71 | 2.21 | 6.12 | 3.00 | 0.35 | 0.42 | 3.78 | 26.01 |
| Deviation | -1.77 | -2.49 | -2.03 | 2.11 | -0.87 | -0.74 | 0.12 | 1.00 | -1.22 | -0.72 | -0.97 | 0.67 | -6.92 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 502.74 | 502.62 | 502.76 | 503.13 | 503.37 | 503.68 | 503.98 | 504.15 | 504.21 | 503.04 | 501.93 | 501.50 | |
| Maximum | 502.93 | 502.74 | 502.77 | 503.15 | 503.37 | 503.72 | 504.11 | 505.23 | 504.36 | 504.20 | 503.01 | 501.88 | |
| Minimum | 502.66 | 502.62 | 502.38 | 502.75 | 503.16 | 503.32 | 503.72 | 504.15 | 504.06 | 503.04 | 501.93 | 501.48 | |
| Pool Content (EOM) (1000 Ac-Ft) | 49.46 | 49.01 | 49.53 | 50.93 | 51.85 | 53.06 | 54.21 | 54.94 | 55.19 | 50.59 | 46.47 | 44.93 | |
| BRAZOS RIVER BASIN | | | | | | | | | | | | | |
| SOMERVILLE LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1924-2000 | 16.0 | 16.0 | 20.4 | 24.1 | 26.7 | 20.4 | 25.6 | 35.8 | 26.0 | 10.5 | 3.8 | 9.2 | 234.6 |
| WY2000 | 3.0 | 2.1 | 2.6 | 5.7 | 4.2 | 3.6 | 5.0 | 16.7 | 9.9 | 0.0 | 0.1 | 2.5 | 55.5 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1966-2000 | 7.5 | 11.8 | 17.8 | 20.2 | 24.6 | 25.2 | 21.7 | 29.5 | 29.0 | 22.6 | 7.3 | 3.7 | 220.8 |
| WY2000 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 23.6 | 0.0 | 0.0 | 0.0 | 7.3 | 7.3 | 0.0 | 39.5 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1966-2000 | 4.15 | 3.22 | 2.93 | 2.84 | 2.64 | 2.67 | 3.08 | 4.68 | 3.80 | 1.66 | 2.41 | 3.94 | 38.01 |
| WY2000 | 1.96 | 0.54 | 1.64 | 3.60 | 1.40 | 3.62 | 2.51 | 5.04 | 3.84 | 0.00 | 0.20 | 1.92 | 26.27 |
| Deviation | -2.19 | -2.68 | -1.29 | 0.76 | -1.24 | 0.95 | -0.57 | 0.36 | 0.04 | -1.66 | -2.21 | -2.02 | -11.74 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 236.69 | 236.53 | 236.50 | 236.80 | 236.82 | 234.56 | 234.69 | 235.91 | 236.33 | 234.63 | 233.08 | 232.67 | |
| Maximum | 236.87 | 236.68 | 236.59 | 236.82 | 236.96 | 236.62 | 234.83 | 235.95 | 236.47 | 236.30 | 234.55 | 233.05 | |
| Minimum | 236.64 | 236.53 | 236.50 | 236.46 | 236.80 | 234.14 | 234.62 | 234.90 | 235.86 | 234.63 | 233.07 | 232.67 | |
| Pool Content (EOM) (1000 Ac-Ft) | 140.70 | 139.13 | 138.81 | 141.87 | 142.18 | 119.21 | 120.46 | 132.61 | 137.04 | 119.88 | 105.52 | 101.85 | |

FORT WORTH DISTRICT
COLORADO RIVER BASIN

| TWIN BUTTES LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1963-2000 | 5.3 | 3.2 | 3.3 | 29.4 | 4.3 | 4.0 | 5.0 | 6.7 | 4.4 | 2.5 | 6.2 | 6.6 | 80.9 |
| WY2000 | 1.3 | 0.0 | 0.2 | 0.5 | 0.5 | 0.3 | 0.5 | 0.3 | 6.1 | 0.0 | 0.0 | 0.5 | 10.1 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1962-2000 | 1.4 | 1.2 | 1.2 | 0.8 | 1.3 | 2.1 | 3.0 | 4.1 | 3.7 | 6.0 | 4.7 | 1.7 | 31.3 |
| WY2000 | 2.4 | 0.7 | 0.7 | 0.2 | 0.4 | 0.6 | 0.6 | 1.5 | 0.7 | 2.5 | 2.3 | 0.6 | 13.2 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1963-2000 | 1.54 | 1.06 | 0.68 | 0.52 | 1.00 | 0.77 | 1.35 | 2.27 | 1.84 | 0.80 | 1.67 | 2.39 | 15.89 |
| WY2000 | 0.02 | 0.00 | 0.00 | 0.03 | 0.01 | 0.76 | 0.59 | 1.08 | 3.07 | 0.00 | 0.00 | 0.72 | 6.28 |
| Deviation | -1.52 | -1.06 | -0.68 | -0.49 | -0.98 | -0.01 | -0.76 | -1.19 | 1.23 | -0.80 | -1.67 | -1.67 | -9.61 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 1894.80 | 1893.90 | 1892.90 | 1892.90 | 1892.70 | 1892.00 | 1891.30 | 1889.10 | 1894.30 | 1890.60 | 1888.10 | 1885.50 | |
| Maximum | 1896.20 | 1894.70 | 1893.90 | 1892.90 | 1893.10 | 1892.70 | 1891.90 | 1891.20 | 1894.50 | 1894.30 | 1890.50 | 1888.10 | |
| Minimum | 1894.80 | 1893.90 | 1892.90 | 1892.70 | 1892.70 | 1892.00 | 1891.30 | 1889.10 | 1888.40 | 1890.60 | 1886.60 | 1885.50 | |
| Pool Content (EOM) (1000 Ac-Ft) | 12.09 | 11.24 | 10.28 | 10.21 | 10.03 | 9.34 | 8.73 | 6.79 | 11.64 | 8.15 | 6.00 | 378.59 | |

COLORADO RIVER BASIN

| O.C. FISHER LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1915-2000 | 3.3 | 0.4 | 0.4 | 0.3 | 0.6 | 1.1 | 3.3 | 5.1 | 2.5 | 2.7 | 1.4 | 6.1 | 27.2 |
| WY2000 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 7.7 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1952-2000 | 1.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 0.3 | 0.4 | 0.4 | 0.2 | 3.5 |
| WY2000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.5 | 0.6 | 1.6 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1952-2000 | 2.36 | 1.15 | 0.89 | 0.77 | 1.13 | 0.98 | 1.92 | 3.11 | 2.36 | 1.63 | 2.08 | 2.82 | 21.19 |
| WY2000 | 0.94 | 0.00 | 0.08 | 0.07 | 0.23 | 0.61 | 0.28 | 0.52 | 3.26 | 0.00 | 0.04 | 1.00 | 7.03 |
| Deviation | -1.42 | -1.15 | -0.81 | -0.70 | -0.90 | -0.37 | -1.64 | -2.59 | 0.90 | -1.63 | -2.04 | -1.82 | -14.15 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 1868.00 | 1867.60 | 1867.30 | 1866.90 | 1866.70 | 1874.10 | 1873.10 | 1872.00 | 1871.30 | 1869.40 | 1867.00 | 1865.60 | |
| Maximum | 1868.60 | 1868.00 | 1867.70 | 1867.30 | 1866.90 | 1874.10 | 1874.10 | 1873.00 | 1871.90 | 1871.30 | 1869.30 | 1867.00 | |
| Minimum | 1868.00 | 1867.60 | 1867.30 | 1866.90 | 1866.70 | 1866.30 | 1873.10 | 1871.90 | 1871.30 | 1869.40 | 1867.00 | 1865.60 | |
| Pool Content (EOM) (1000 Ac-Ft) | 8.60 | 8.25 | 8.02 | 7.76 | 7.57 | 14.67 | 13.41 | 12.21 | 11.54 | 9.71 | 7.83 | 6.82 | |

FORT WORTH DISTRICT
COLORADO RIVER BASIN

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| HORDS CREEK LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1942-2000 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.5 | 0.9 | 0.5 | 0.2 | 0.1 | 0.3 | 3.6 |
| WY2000 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 1.9 | 0.0 | 0.0 | 0.0 | 2.3 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1951-2000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 1.1 |
| WY2000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.7 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1948-2000 | 2.48 | 1.49 | 1.14 | 1.12 | 1.32 | 1.48 | 2.38 | 3.78 | 3.31 | 1.87 | 2.01 | 3.10 | 25.48 |
| WY2000 | 1.20 | 0.13 | 0.41 | 0.29 | 0.63 | 0.48 | 0.24 | 2.12 | 9.33 | 0.18 | 0.00 | 1.52 | 16.54 |
| Deviation | -1.28 | -1.36 | -0.73 | -0.83 | -0.69 | -1.00 | -2.14 | -1.66 | 6.02 | -1.69 | -2.01 | -1.57 | -8.95 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 1888.80 | 1887.80 | 1887.30 | 1886.50 | 1886.10 | 1885.60 | 1884.70 | 1883.90 | 1890.50 | 1889.30 | 1888.20 | 1887.30 | |
| Maximum | 1889.40 | 1888.80 | 1887.80 | 1887.30 | 1886.50 | 1886.10 | 1885.60 | 1884.70 | 1891.10 | 1890.50 | 1889.30 | 1888.20 | |
| Minimum | 1888.80 | 1887.80 | 1887.30 | 1886.50 | 1886.10 | 1885.60 | 1884.70 | 1883.90 | 1883.80 | 1889.30 | 1888.20 | 1887.30 | |
| Pool Content (EOM) | 3.80 | 3.55 | 3.40 | 3.21 | 3.11 | 3.00 | 2.80 | 2.61 | 4.30 | 3.96 | 3.65 | 3.41 | |
| (1000 Ac-Ft) | | | | | | | | | | | | | |

COLORADO RIVER BASIN

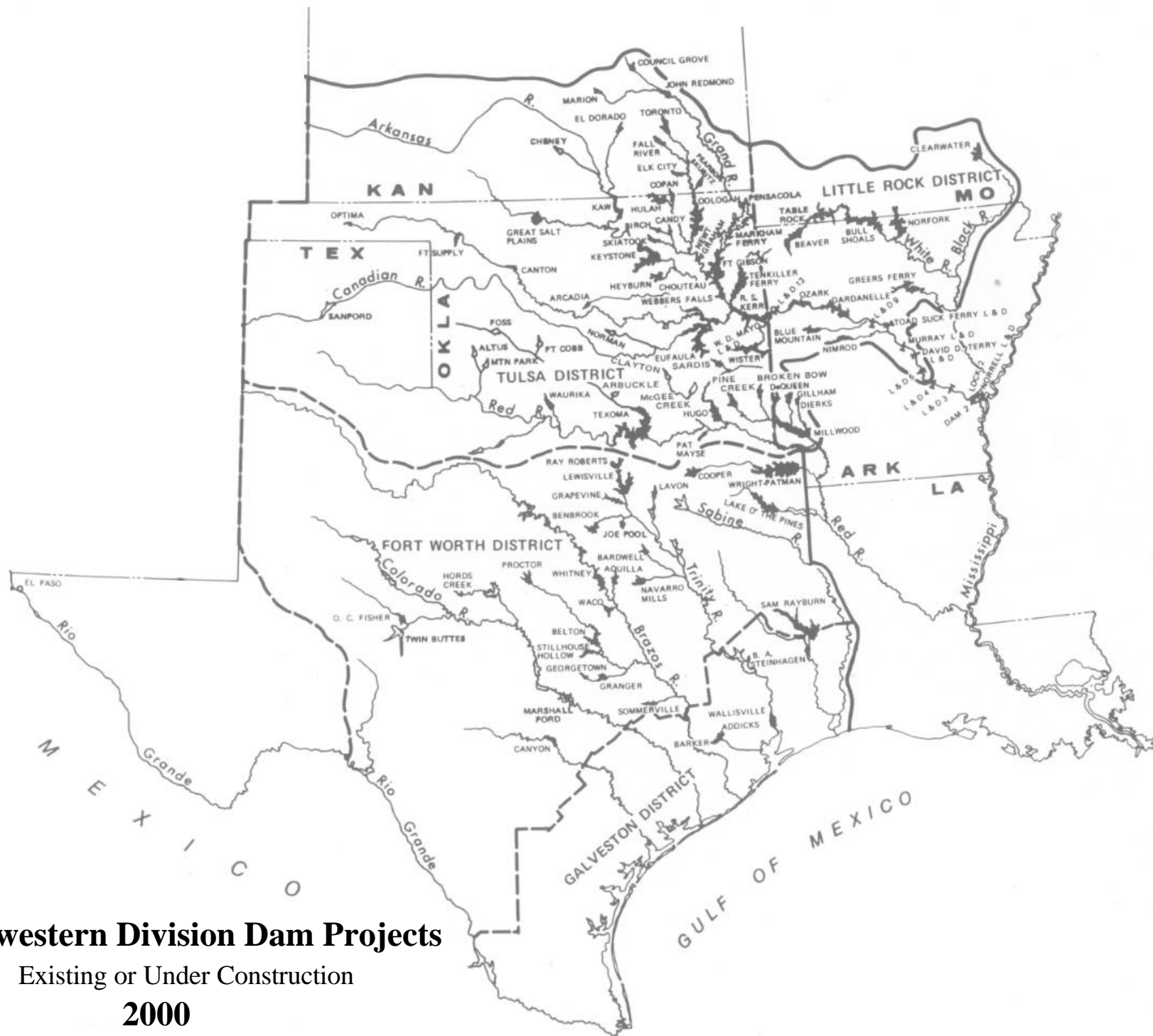
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MARSHALL FORD LAKE | | | | | | | | | | | | | |
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1941-2000 | 113.0 | 56.6 | 72.2 | 76.4 | 97.0 | 102.0 | 116.9 | 209.0 | 185.0 | 88.8 | 79.1 | 103.2 | 1299.4 |
| WY2000 | 4.3 | 2.8 | 11.7 | 20.3 | 18.5 | 16.1 | 13.2 | 40.4 | 23.9 | 47.0 | 79.7 | 56.9 | 334.8 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1943-2000 | 59.5 | 49.8 | 51.1 | 55.9 | 70.3 | 93.4 | 105.4 | 157.2 | 187.7 | 133.3 | 108.6 | 85.9 | 1158.2 |
| WY2000 | 31.3 | 14.7 | 15.7 | 14.7 | 15.2 | 24.5 | 57.2 | 87.4 | 77.9 | 108.5 | 79.6 | 79.6 | 606.4 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1951-2000 | 3.25 | 2.11 | 1.57 | 1.38 | 1.91 | 1.84 | 2.53 | 4.15 | 3.43 | 1.74 | 2.13 | 3.01 | 29.03 |
| WY2000 | 0.96 | 1.22 | 0.78 | 2.33 | 1.65 | 1.24 | 1.94 | 3.56 | 5.72 | 0.92 | 0.20 | 1.96 | 22.49 |
| Deviation | -2.29 | -0.89 | -0.79 | 0.95 | -0.25 | -0.60 | -0.59 | -0.59 | 2.29 | -0.82 | -1.93 | -1.05 | -6.55 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 665.65 | 664.54 | 664.02 | 664.15 | 664.12 | 663.27 | 659.77 | 655.69 | 650.85 | 644.78 | 643.79 | 640.90 | |
| Maximum | 667.89 | 665.62 | 664.51 | 664.15 | 664.31 | 664.12 | 663.21 | 660.19 | 655.38 | 650.54 | 645.50 | 643.74 | |
| Minimum | 665.60 | 664.54 | 664.02 | 663.28 | 663.80 | 663.27 | 659.77 | 655.69 | 650.85 | 644.78 | 643.45 | 640.90 | |
| Pool Content (EOM) | 903.40 | 886.29 | 878.60 | 880.55 | 880.10 | 867.23 | 816.48 | 759.99 | 11.62 | 623.65 | 612.40 | 378.59 | |
| (1000 Ac-Ft) | | | | | | | | | | | | | |

FORT WORTH DISTRICT
GUADALUPE RIVER BASIN

| CANYON LAKE | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Inflow (1000 AF) | | | | | | | | | | | | | |
| Avg 1915-2000 | 30.4 | 16.7 | 21.5 | 21.6 | 23.8 | 26.4 | 30.7 | 39.6 | 38.4 | 23.5 | 17.7 | 24.3 | 314.5 |
| WY2000 | 5.7 | 4.9 | 4.9 | 6.6 | 8.5 | 7.2 | 5.8 | 9.7 | 11.2 | 3.3 | 2.1 | 1.8 | 71.8 |
| Release (1000 AF) | | | | | | | | | | | | | |
| Avg 1958-2000 | 16.5 | 18.5 | 18.1 | 23.6 | 20.1 | 27.0 | 26.8 | 27.0 | 33.4 | 34.3 | 25.7 | 15.5 | 286.5 |
| WY2000 | 6.0 | 5.9 | 6.1 | 6.0 | 5.7 | 5.8 | 5.6 | 5.3 | 5.9 | 3.8 | 3.2 | 3.1 | 62.3 |
| Rainfall (inches) | | | | | | | | | | | | | |
| Avg 1962-2000 | 3.85 | 2.61 | 2.09 | 1.89 | 1.98 | 2.10 | 2.80 | 4.31 | 3.81 | 1.90 | 2.76 | 3.69 | 33.78 |
| WY2000 | 1.91 | 0.04 | 0.46 | 2.30 | 1.36 | 1.87 | 1.63 | 5.77 | 7.96 | 0.26 | 0.64 | 1.16 | 25.36 |
| Deviation | -1.94 | -2.57 | -1.63 | 0.41 | -0.62 | -0.23 | -1.17 | 1.46 | 4.15 | -1.64 | -2.12 | -2.53 | -8.42 |
| Pool Elevation | | | | | | | | | | | | | |
| End of month | 906.80 | 906.31 | 905.89 | 905.73 | 905.82 | 905.68 | 905.32 | 905.40 | 905.58 | 904.74 | 903.81 | 902.99 | |
| Maximum | 907.37 | 906.78 | 906.29 | 905.93 | 905.83 | 905.83 | 905.74 | 905.56 | 905.77 | 905.54 | 904.73 | 903.78 | |
| Minimum | 906.78 | 906.31 | 905.89 | 905.73 | 905.68 | 905.68 | 905.32 | 905.35 | 905.25 | 904.72 | 903.81 | 902.99 | |
| Pool Content (EOM) (1000 Ac-Ft) | 364.17 | 360.26 | 356.93 | 355.67 | 356.38 | 355.27 | 352.44 | 353.07 | 354.41 | 347.90 | 340.71 | 334.44 | |

GALVESTON DISTRICT
SAN JACINTO BASIN

| | 1999 OCT | 1999 NOV | 1999 DEC | 2000 JAN | 2000 FEB | 2000 MAR | 2000 APR | 2000 MAY | 2000 JUN | 2000 JUL | 2000 AUG | 2000 SEP | TOTAL |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ----- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ----- |
| BARKER RESERVOIR | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| INFLOWS (1000 AC.FT.) | | | | | | | | | | | | | |
| AUG. 1945 thru 2000 | 6.9 | 7.4 | 7.8 | 9.8 | 8.7 | 5.6 | 5.9 | 8.3 | 10.3 | 6.2 | 4.5 | 8.0 | 89.4 |
| FY 2000 | 2.2 | 2.0 | 2.2 | 2.9 | 3.4 | 2.2 | 11.5 | 6.9 | 3.3 | 2.3 | 2.3 | 35.4 | 76.7 |
| RELEASES (1000 AC.FT.) | | | | | | | | | | | | | |
| AUG. 1964 thru 2000 | 7.7 | 8.1 | 8.2 | 9.0 | 9.2 | 8.1 | 6.0 | 9.3 | 9.7 | 6.7 | 4.2 | 8.5 | 94.8 |
| FY 2000 | 2.2 | 2.0 | 2.2 | 2.9 | 3.4 | 2.2 | 8.5 | 8.2 | 3.3 | 2.3 | 2.3 | 18.3 | 57.9 |
| RAINFALL (INCHES) | | | | | | | | | | | | | |
| AUG. 1945 thru 2000 | 3.90 | 3.54 | 3.23 | 3.35 | 3.00 | 3.25 | 3.16 | 4.33 | 4.12 | 2.88 | 3.58 | 4.19 | 42.52 |
| FY 2000 | 0.61 | 0.81 | 1.60 | 1.91 | 1.46 | 1.32 | 2.94 | 3.36 | 1.89 | 1.17 | 0.93 | 7.88 | 25.88 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 73.79 | 73.76 | 73.73 | 73.94 | 73.81 | 73.81 | 85.33 | 73.79 | 73.79 | 74.15 | 73.78 | 89.93 | |
| MAXIMUM | 74.32 | 74.89 | 75.88 | 76.84 | 77.84 | 81.43 | 86.81 | 86.67 | 81.99 | 74.28 | 74.52 | 92.60 | |
| MINIMUM | 73.75 | 73.71 | 73.73 | 71.96 | 73.73 | 73.80 | 73.82 | 73.78 | 73.77 | 73.78 | 73.78 | 73.80 | |
| POOL CONTENT E.O.M. (1000 AC.FT.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 | 15.32 | |
| ADDICKS RESERVOIR | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| INFLOWS (1000 AC.FT.) | | | | | | | | | | | | | |
| AUG. 1948 thru 2000 | 8.0 | 7.7 | 8.2 | 7.5 | 8.1 | 5.1 | 6.2 | 8.5 | 8.3 | 5.2 | 5.8 | 7.4 | 86.1 |
| FY 2000 | 2.6 | 2.6 | 2.9 | 3.3 | 3.6 | 2.9 | 8.4 | 11.8 | 8.0 | 3.6 | 2.4 | 35.6 | 87.9 |
| RELEASES (1000 AC.FT.) | | | | | | | | | | | | | |
| AUG. 1964 thru 2000 | 8.7 | 9.6 | 8.8 | 8.4 | 8.3 | 7.0 | 6.2 | 10.0 | 9.0 | 6.3 | 4.5 | 8.3 | 95.1 |
| FY 2000 | 2.7 | 2.6 | 2.9 | 3.3 | 3.6 | 2.9 | 6.1 | 13.6 | 7.7 | 3.6 | 2.4 | 21.8 | 73.5 |
| RAINFALL (INCHES) | | | | | | | | | | | | | |
| AUG. 1948 thru 2000 | 4.08 | 3.46 | 3.30 | 3.29 | 3.12 | 2.55 | 3.19 | 4.15 | 4.07 | 2.88 | 3.26 | 4.29 | 41.65 |
| FY 2000 | 0.61 | 0.81 | 1.60 | 1.91 | 1.20 | 1.32 | 2.94 | 3.36 | 1.89 | 1.17 | 0.93 | 7.88 | 25.61 |
| POOL ELEVATION | | | | | | | | | | | | | |
| END OF MONTH | 71.91 | 71.92 | 71.88 | 71.99 | 72.03 | 71.92 | 86.70 | 72.12 | 72.01 | 72.24 | 71.87 | 93.27 | |
| MAXIMUM | 74.16 | 75.56 | 75.76 | 77.73 | 78.37 | 79.72 | 89.25 | 90.03 | 86.01 | 772.02 | 72.33 | 97.02 | |
| MINIMUM | 71.91 | 71.84 | 71.88 | 71.87 | 71.96 | 71.92 | 58.68 | 71.96 | 71.96 | 71.99 | 71.87 | 71.92 | |
| POOL CONTENT E.O.M. (1000 AC.FT.) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 13.93 | |



Southwestern Division Dam Projects

Existing or Under Construction

2000

(With Section 7 Flood Control Projects Added)

SECTION XI

MINUTES OF THE ANNUAL RESERVOIR CONTROL CENTER MEETING

PROCEEDINGS
ANNUAL REGIONAL WATER MANAGEMENT CONFERENCE
5 - 8 DECEMBER 2000
SOUTHWESTERN DIVISION

25 January 2001

1. General. The Conference opened at 1300 hrs. on 5 December 2000 with administrative remarks by Mr. Mike Hendricks representing Little Rock District, this year's host. Due to other pending issues and shortage of staff, there was no representative from Headquarters at the conference.

2. District Status. Each district gave a report of 2000 highlights, significant milestones and items of interest that occurred in their district during the past calendar year. Mr. Paul Rodman spoke for the Fort Worth District, Mr. Charles Scheffler for the Galveston District, Mr. Mike Hendricks for the Little Rock District, and Mr. Ron Bell for the Tulsa District. All attendees agreed to submit their Annual Report Summaries to Mr. Gary Goodwin, CESWD-ETEC-P, (214) 767-2390 NLT COB on 1 March 2001.

3. Reservoir Modeling Integrated Product Team (RMIPT). Ms Patty Taylor gave a report of the Status of the RMIPT. This was a PowerPoint presentation in which Ms Taylor made the following comments:

a. The need for the RMIPT began with the retirement in May 1999 of Mr. Ron Hula, SWD's recognized expert in the applications of SUPER. District efforts to maintain a robust capability in a reservoir simulation suite of programs resulted in the SWD Board of Directors (BOD), consisting of Division and District Commanders), forming a technical team to research and recommend alternatives that would insure SWD's capability to perform the complicated reservoir simulation models needed to manage SWD's varied water resource oriented missions. District Commanders signed an MOA in July 1999 initiating this action. The MOA identified District funding for the RMIPT initiative and established a RMIPT team with representatives from three (3) districts¹ (Fort Worth, Little Rock and Tulsa)

¹ Galveston District was not included in the RMIPT initiative because the district does not perform complex reservoir system modeling and therefore, does not have a use for SUPER.

to establish priorities and develop a short and long term business plan with milestones to ensure reservoir simulation capability is maintained within SWD. Those RMIPT members are: Mr. Ralph Hight, Tulsa District, Senior Staff Sponsor; Ms Patty Taylor, Southwestern Division, RMIPT Team Leader; Mr. Paul Rodman, Fort Worth District, RMIPT Team Member; Mr. Chris Reicks, Little Rock District, RMIPT Team Member; Ms Holly Hartung, Little Rock District (IM), RMIPT Member; and Mr. Brian McCormick, Tulsa District, RMIPT Team Member. The RMIPT team was officially assembled and the tasking begun in July 1999.

b. RMIPT Goals:

a. Evaluate all feasible options.

b. Define requirements of Districts utilizing a matrix analysis.

c. Research existing software by contacting universities, Internet searches, other Corps Districts/Divisions, and other Federal agencies including Bureau of Reclamation.

d. Develop a recommendation to the BOD regarding retention of SUPER or a suitable suite of programs to replace SUPER.

c. The only available software that appeared to meet the district's needs was RiverWare, a product developed by CADWES, an affiliate of the University of Colorado, Boulder, CO. To test the candidate RiverWare software, field tests were conducted by Tulsa District on portions of the Arkansas River Basin, and the hydropower capabilities were tested on Tenkiller Lake and Dam by Little Rock District. Given the success and based upon research and field tests, the RMIPT recommended transition to RiverWare. The BOD took this recommendation under consideration and approved the option of utilizing RiverWare to replace SUPER on 12 July 2000.

d. IM Requirements: IAW IM regulations, a Mission Needs Statement and a System Decision Paper were prepared stating the RMIPT recommendation to the BOD was to transition to RiverWare. SWD Chief of IM, Mr. Jim Parker, the approval authority, approved the RiverWare

plan as meeting all of the IM criteria on 11 September, 2000.

e. RMIPT MILESTONES :

a. The BOD was briefed on all options on 12 July 2000. Consensus was to adopt the RiverWare program developed by CADWES.

b. BOD expects full deployment of RiverWare by July 2003.

f. Enhancements. Enhancements to the program were identified to accommodate specific district requirements. Contracting actions are underway with CADSWES to accomplish enhancements supplemented by continuing SUPER technical support, under contract, from Mr. Ron Hula.

g. The RMIPT met the day before the regional water management meeting and established short-term milestones. Those are:

- Develop a sole source contract with Mr. Hula to provide technical support and information regarding SUPER to CADWES (RiverWare)
- Develop a contract (Cooperative Agreement) with CADSWES to begin design of desired enhancements.
- Districts will begin a robust program to develop and code basin models.
- Funding issues were discussed and the option of possibly cost sharing with Southwestern Power Administration (SWPA) and Kansas City District was discussed. Any cost sharing options have not yet been finalized.

4. RMIPT Funding. Mr. Patrick Evermon presented a PowerPoint RMIPT Wiring Diagram that addressed how the RMIPT initiative would be funded for FY01 and subsequent FY's. Pertinent points of the presentation are discussed below:

a. The Wiring Diagram at enclosure 3 will be the general structure of the budget process from FY 2001 until the RMIPT initiative is officially terminated.

b. An SWD RMIPT FY 01 operating fund of \$10,000 will be required for FY 2001. In order to avoid an RMIPT "child" budget structure (as was the case in FY 2000), each district will be charged their standard prorata percentage rate (SWF-29%; SWG-4%; SWL-26%; SWT-41%).

c. The SWD RMIPT operating fund (\$10,000) will be a line item in the FY 2001 Revolving Fund (RF) 5504 annual water management budget. This process avoids the time consuming clearinghouse effort experienced in FY 2000.

d. In accordance with the RMIPT MOA, a total of \$130,000 was identified for the RMIPT initiative in FY 2001. With \$10,000 going to SWD, this leaves \$120,000 funded equally (33%) among the three participating districts. Districts should develop their own (local) RMIPT line item in their annual budget to include their \$40,000. This \$40,000 does not include any in-house effort such as labor, training, travel, etc in support of the RMIPT initiative. This in-house effort should be a separate line item in each district's annual budget and budgeted accordingly to their specific needs.

e. In order to decentralize funding, as each district expresses a need for funds to support a contract or other SWD-wide RMIPT corporate activity, their sister Districts are expected to MIPR funds (up to the support cap of \$40,000) directly to that district, thereby avoiding SWD as the clearinghouse.

5. RCC - E&C or Ops? Mr. Patrick Evermon presented a series of slides that spoke to the current location of the Reservoir Control Center at the district level. The title, "RCC/ H&H; Joined at the Hip", is an issue that dates back to Jan 1997 when the Division Commander moved the RCC function from Engineering and Construction (E&C) Division to Operations Division. This move only affected district elements, all water management functions remained in E&C Division at the MSC level. This same PowerPoint presentation was given at the 7-9 November 2001 E&C Chiefs meeting at Ft. Gibson, OK. As a result of this presentation, a PAT was formed to assess the most efficient location for RCC, either E&C or Operations. The PAT was officially formed and convened their first meeting on 17 January 2001. The team from the districts, consists of two

(2) members from E&C Division and two (2) from Operations and is chaired by two (2) MSC staff representing E&C and Operations, respectively. The initial task was to develop a strawman matrix designed to rate specific areas of responsibility, tasks and mission assignments. This matrix will be finalized by SWD and offered to the team members for comment and finalization.

6. Federal Advisory Committee Act of 1972. Mr. Morris Tanner, Southwestern Division Counsel, gave a special presentation on a legal topic pertinent to reservoir control operations, the Federal Advisory Committee Act (FACA) of 1972. The purpose of this presentation was to show how this law impacts the Corps role in its participation in any advisory committees and to show that alternatives exist that would allow the Corps to continue as an advisory role and allow participation to insure Federal law and Corps criteria were met.

a. The FACA was signed into law in 1972. The reason this law was enacted was to limit any advisory action on the Federal Government to a specific committee with special goals that could possibly adversely affect other individuals or a group of individuals. It was stated that representative committees may exist under certain guidelines. These committees must have a Charter, which includes members, the purpose of the committee, records must be kept, and the meetings must be publicly announced.

b. A federal administrative committee is any committee established by or used by a Federal Agency to obtain advice. The Army definition is more restrictive, a committee composed of members other than full time officers. A Federal Administrative Committee exists if it meets the following criteria:

- 1) Does it have a formal organization? (Is it a fixed membership?)
- 2) Does it hold regularly scheduled meetings?
- 3) Does it have a specific purpose?
- 4) Are federal resources used to support it?
- 5) Does the Federal Government (Corps) control the meeting?
- 6) Is the outcome a recommendation to take to the District Commander or is the purpose of the committee just soliciting and recording the views of the public?

c. What if the act is violated? This is primarily a government housekeeping law. If the act is violated then recommendations that come out of committee can readily be challenged and in all likelihood, rendered moot.

d. It is recognized that an inter-agency drought committee is required to effectively prosecute regional challenges facing SWD and the districts. There are two ways to authorize and charter a committee that would allow the Corps to participate as a voting member and still remain within the guidelines of FACA 1972. The first method is to obtain that approval at the Secretary of the Army level. This approval may take a long time for a particular problem and is not a practical solution for an ongoing problem. The second option is that Congress may pass a statute to authorize such a committee; however, this again is a time consuming process and in all likelihood, not a practical solution.

e. Under FACA 1972, Corps representatives may be part of committees that do not specifically make recommendations to the Corps. Corps personnel may talk to any government official or private entity regarding the Corps' role in any given issue. Any meetings involving select groups may also be attended. Public unchartered groups are not usually run by a federal interest and are not affected by this Act.

f. The group was given the tasking to list what problems and issues are to be addressed in committees. This list is to be provided to Mr. Patrick Evermon who will then pass these requirements to Mr. Morris Tanner. These committees could concern any problem with reservoir operations such as flood control and hydropower. The suspense for this action is NLT COB 6 April 2001.

7. Corps Water Management System. Mr. Ronn Brock presented the findings of the 28-30 November 2000 meeting of the Corps Water Monitoring System (CWMS) Advisory Group (AG). This recommendation concerned the Geo-Configuration of the CWMS server deployment. The AG recommended that each location requesting a server should have one. The primary reason for this is the line transmission costs to assure uninterrupted 24/7 back-up data line capabilities for servers at remote locations. An update on the progress of CWMS testing was given. Test Version 3 will be deployed starting the first of the calendar year.

8. Greers Ferry. The afternoon of 6 December 2000 was spent touring the Greers Ferry project. The staff at Greers Ferry is to be commended for their knowledge, professionalism and eagerness to "show off" their outstanding project. All conference members were very complimentary of the tour and found all aspects to be of benefit and interest.

9. White and Arkansas River Basin Initiatives. Following opening remarks, Mr. Mike Hendricks, Little Rock District, presented initiatives underway, or proposed, that will have significant impacts on the water control plans in the White and Arkansas River basins. The White River has a minimum flow issue as directed by the Water Resources Development Act (WRDA) of 1999. The allocated storage will not accommodate or sustain the constant minimum flow during any given year. A technical study was performed in the district to confirm this condition. Another impact will be a significant drawdown of the pool, which could affect lake fishing, boating recreation activities, and other warm weather recreation features of the project.

a. Little Rock district is engaged in on-going discussions with the State regarding contingency plans when dissolved oxygen concentrations reach critical levels of depletion. The district has requested funding that will facilitate turbine modifications that will help mitigate the low oxygen problems. These funding requests will have to compete with other budget items for consideration and is, therefore, not guaranteed.

b. The Southeast Arkansas Grand Prairie irrigation project was discussed. As the result of large amounts of rice production and the aquifer in the area being depleted, interests have turned to utilizing increasing amounts of Arkansas River water for irrigation. This could affect navigation on the Arkansas River. To aid this possible increased utilization of river water a joint Little Rock and Tulsa district Arkansas River Basin study is being performed. One Little Rock criteria regarding preservation of existing capacity was surfaced and discussed by Mr. Hendricks. In development around reservoirs, no fill is to be allowed below the 5-year pool. Above the 5-year level and below fee land, a balanced fill policy is to be utilized. This will allow storage added by construction to be balanced by excavated material. Minor fill would be allowed if it is good for the public interest. One point

of caution should be discussed, cut such as a water hazard on a golf course is not viewed as a trade off since most hazards are filled with water, and thence no additional capacity is afforded. Little Rock district pointed out this study was on a fast track in their District.

10. Wallisville Salt Water Barrier. Mr. Charles Scheffler presented his experiences in the initial operation of the Wallisville project, located near the mouth of the Trinity River. Mr. Scheffler gave a brief overview of the history of the project and showed maps detailing the area and the structures comprising the project. He detailed that operation of the project was difficult in that he had to balance competing purposes. One of the purposes of the project was to prevent salt water from backing up into fresh water intakes near the gates. However, a competing purpose is to periodically lower the water level for the Cyprus trees located within the project. At these times there is little margin for error in releases given the unpredictability of wind patterns on the tides. However, the project has been successfully operated by Galveston district despite these challenges.

11. Sediment Survey Funding. Mr. Ron Bell of Tulsa district presented the challenge he has encountered in obtaining funding for sediment surveys. Mr. Paul Rodman of Fort Worth district stated that they have had planning funding assistance from the State of Texas for sediment surveys and suggested this may be a tactic that Tulsa could utilize. Mr. Bell stated sediment surveys should be in the annual operating budget.

12. Endangered Species - Interior Lease Terns. Mr. Bell then discussed the issue associated with the Interior Lease Terns. The nesting and rearing habits of these endangered species have restricted flood control release from Keystone and Eufala dams, respectively, and the possibility exists this could affect other projects where the Tern nest downstream from a project. Essentially, these endangered species nest on islands and sandbars that form in the river downstream of a project. Once the nest is established, the wildlife community is concerned that islands and sandbars that are connected to the bank of the river will provide easy access to the nests from natural predators such as raccoons and coyotes. To preclude this from happening, the district has been approached with employing sustained flows downstream from the project. This sustained flow will isolate the islands and sandbars from any predator attacks

and allow the chicks to reach full maturity. The district is exploring other options that would accommodate the desires of the environmental community and still allow reasonable project operations to continue without the constraint of maintaining a sustained flow regime.

13. Texas Water Monitoring Congress. Mr. Ronn Brock, Southwestern Division, presented the results of the 18 - 20 September 2000 Texas Water Monitoring Congress. It was pointed out that the original purpose behind the Congress was to bring everyone together that was interested in reducing the costs of stream gaging in Texas. To this end, good progress has been made since the original Congress. Senate Bill 1 was passed by the Texas legislature with far reaching requirements for water planning within the State. The Texas Water Information Network (TXWIN) was established to centralize water data storage and retrieval within the State. At the last Congress a number of the recommendations requested additional state funding for water monitoring purposes. This acknowledges that the message has been received that previous levels of federal funding for water monitoring can no longer be sustained due to continued annual budget constraints and reductions.

14. Senate Bill One. Mr. Paul Rodman, Fort Worth district, discussed the possible impacts Senate Bill 1 will have on district operations. Presently, these agenda items represent a significant investment in manpower and budget resources, however, a firm Scope or Business Plan has not been developed and approved to date. A general itemized listing is presented below:

- a. Funding may be made available to allow for gaging at the smaller lakes within Fort Worth District.
- b. There is a proposal to form sixteen (16) regional water resource planning groups for Texas.
- c. Potential for some reallocation studies and corresponding environmental mitigation actions at Corps lakes.
- d. Possible purchase of water from Lake Hugo, OK.
- e. Possibility to see some funding (cost sharing) for RiverWare.

The conference was adjourned at 1200 hrs on 8 December 2000.

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PATRICK A. EVERMON, P.E.
Team Leader, Construction and
Engineering Programs Team